

FIGURE 1

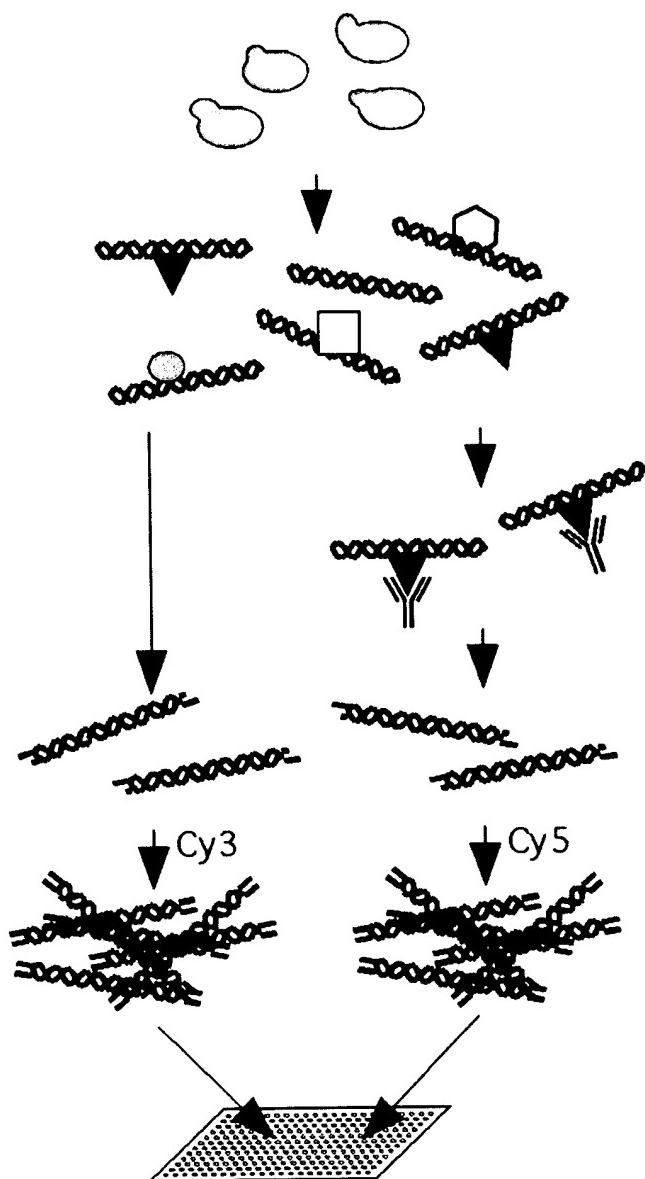


FIGURE 1

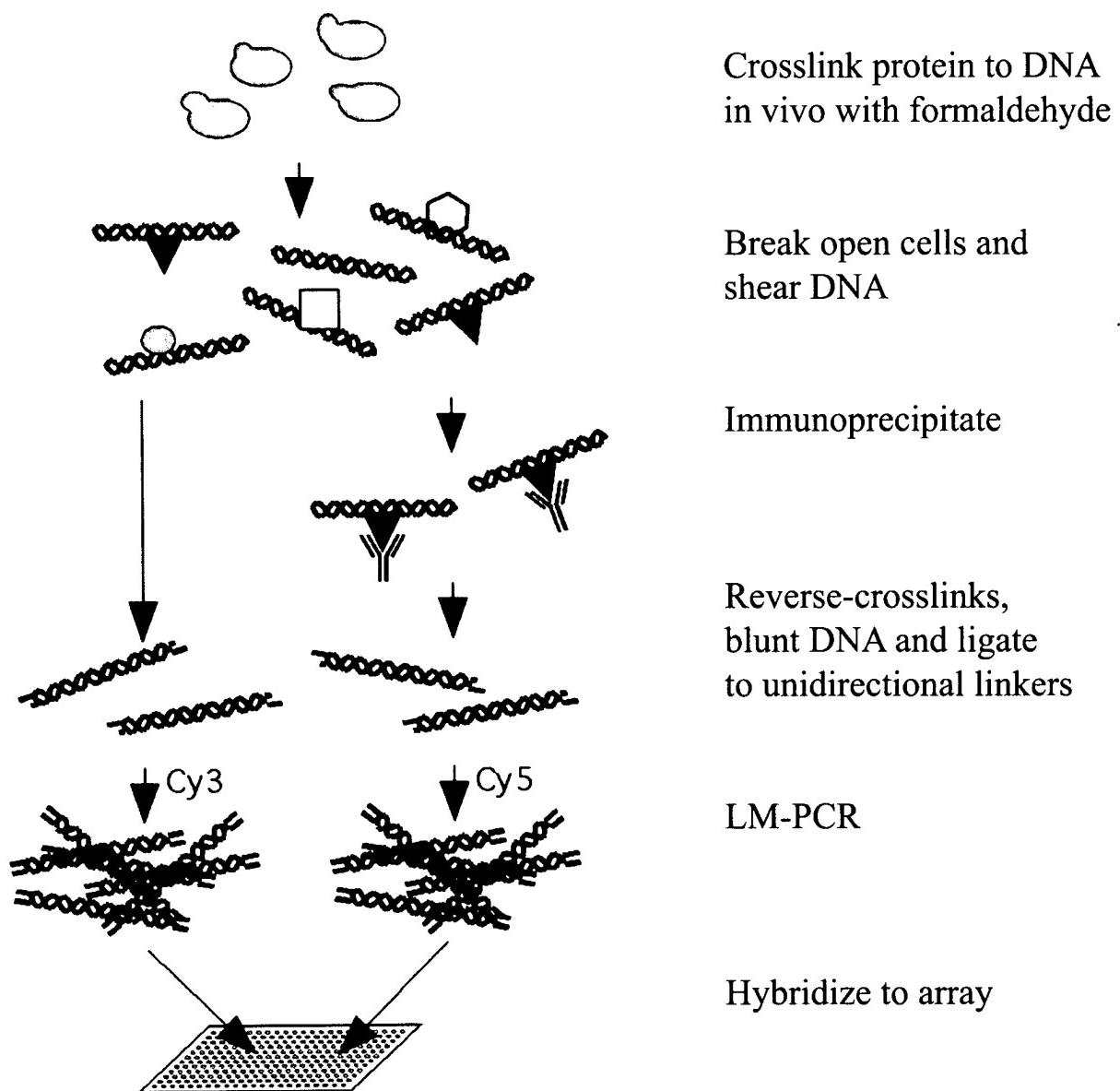
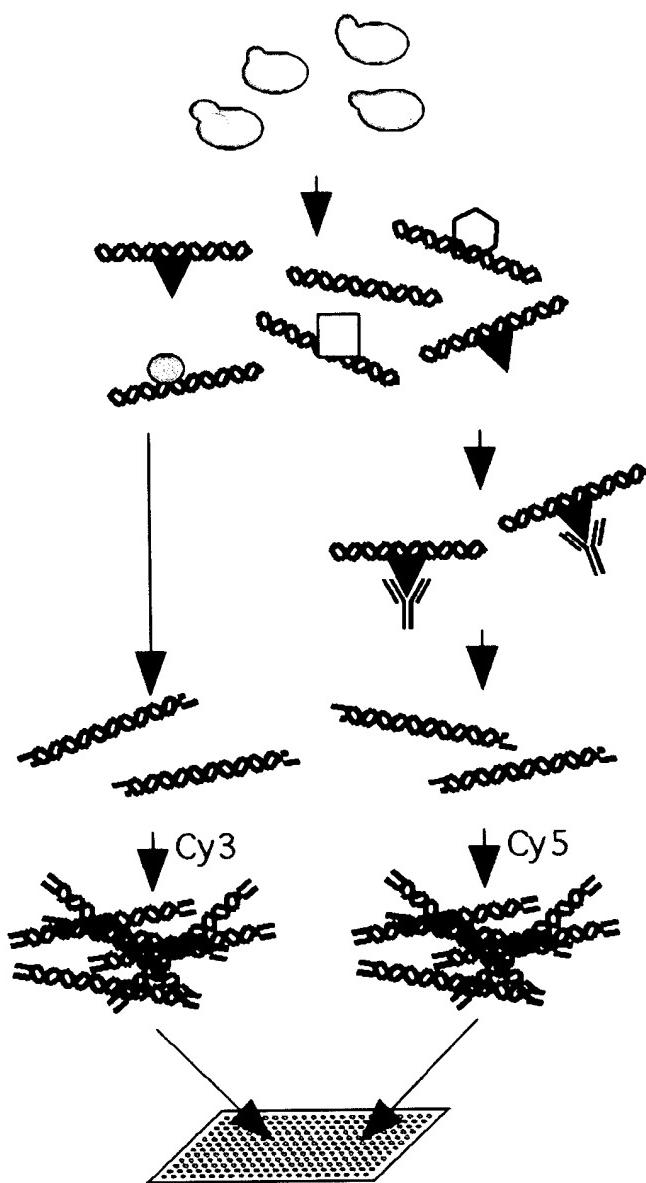


FIGURE 1



Crosslink protein to DNA  
in vivo with formaldehyde

Break open cells and  
shear DNA

Immunoprecipitate

Reverse-crosslinks,  
blunt DNA and ligate  
to unidirectional linkers

LM-PCR

Hybridize to array

FIGURE 1

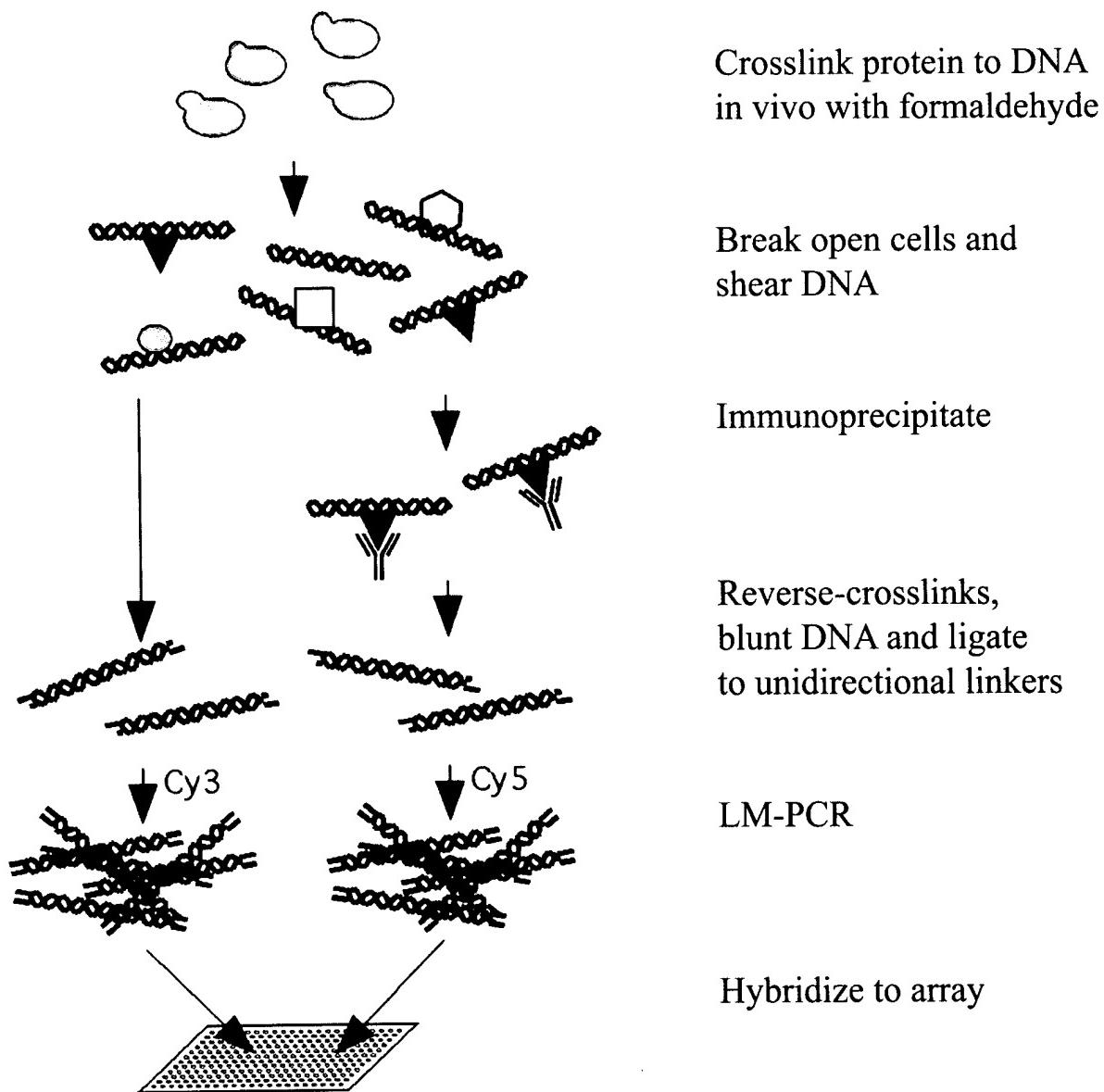
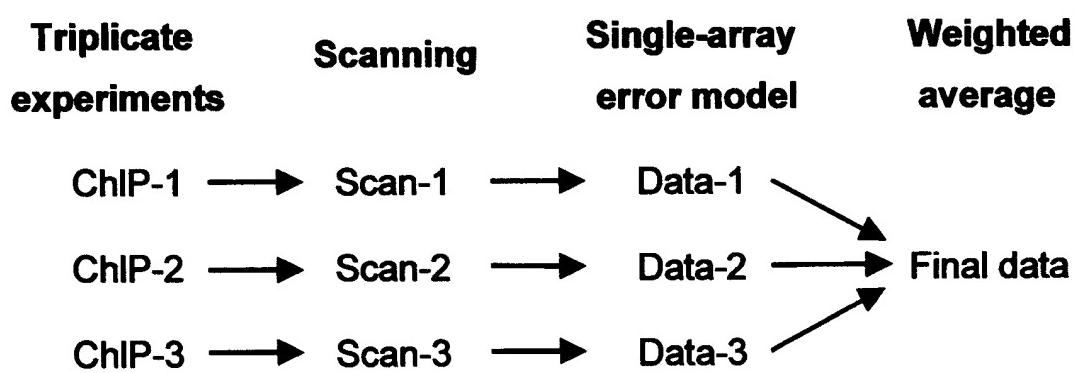


FIGURE 1



**FIGURE 2**

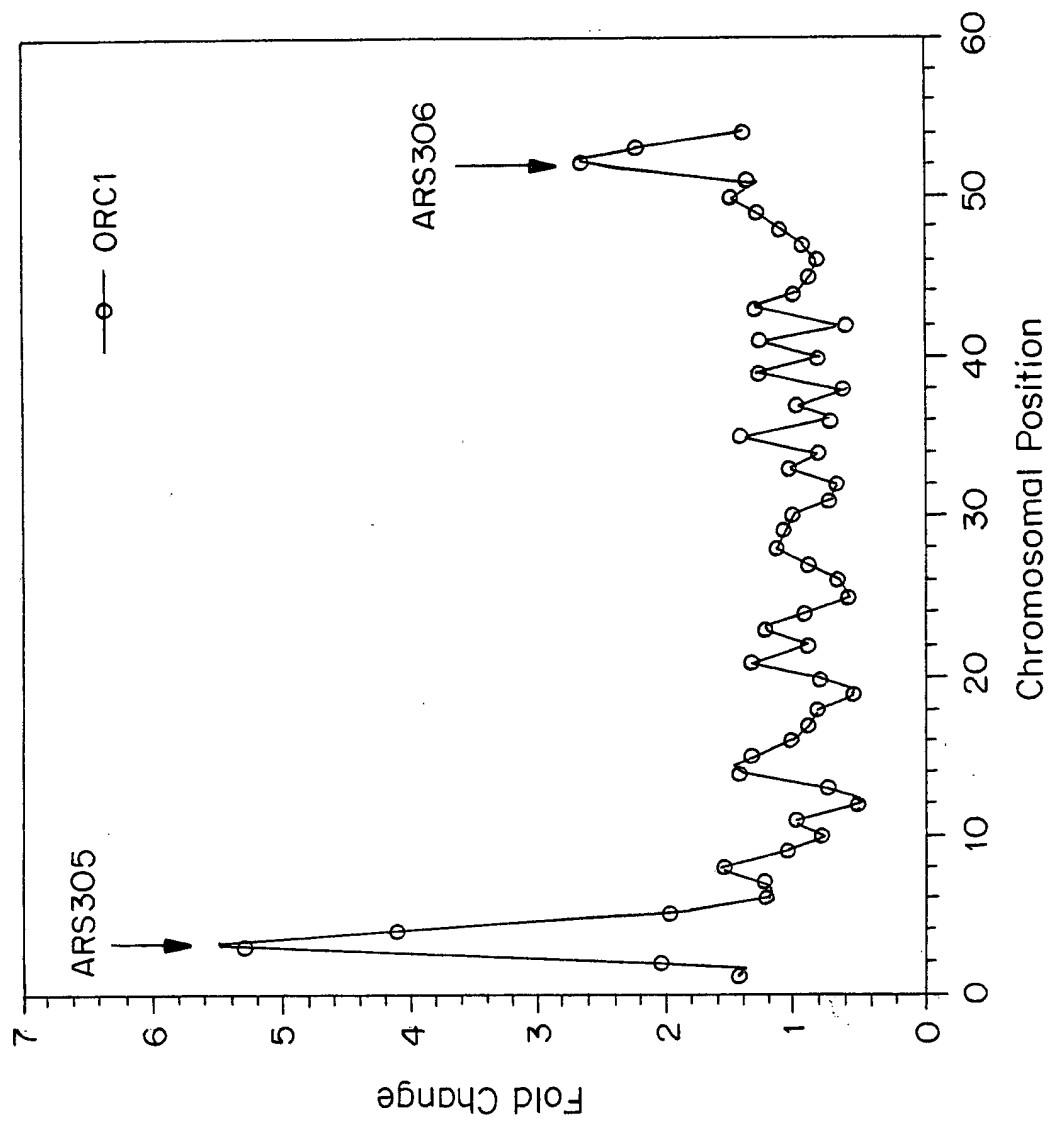


FIG. 3

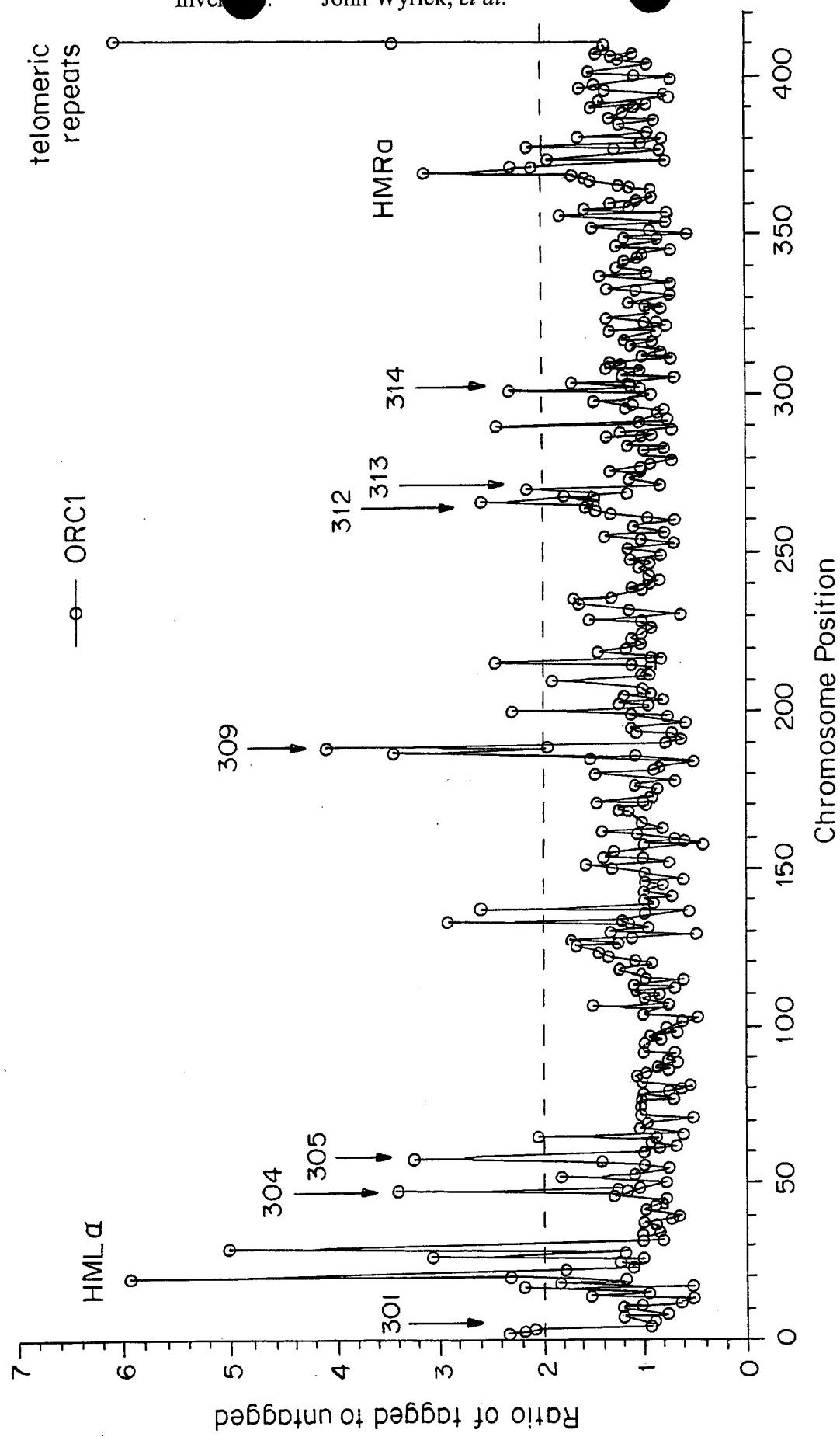


FIG. 4

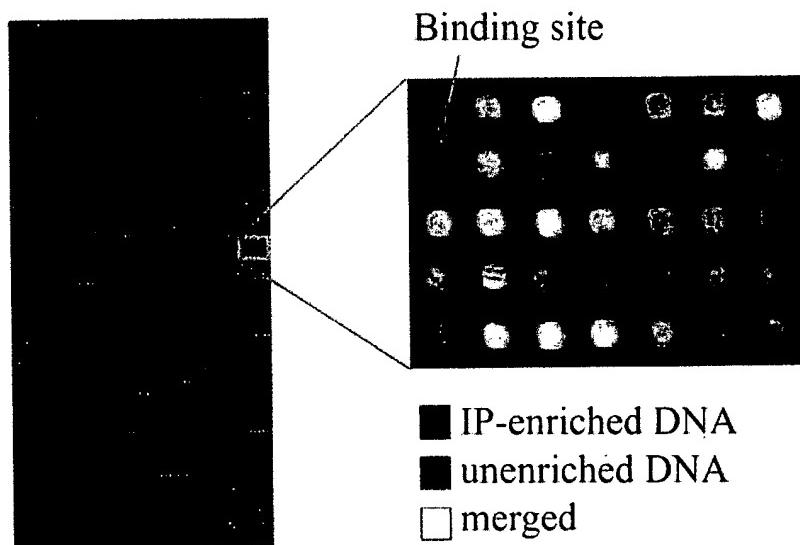


FIGURE 5A

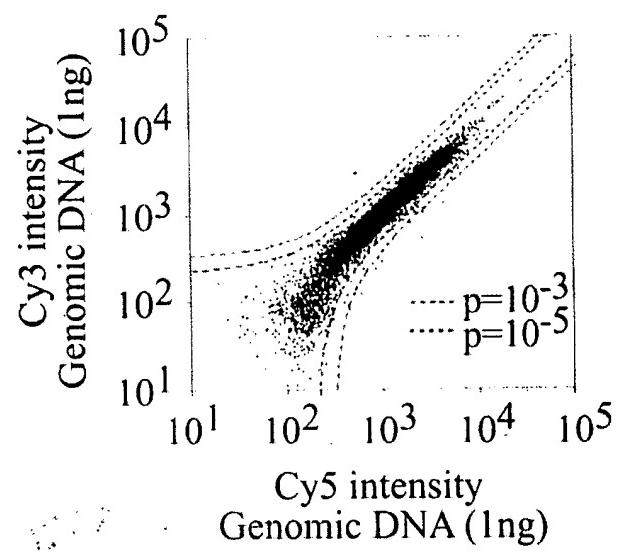


FIGURE 5B

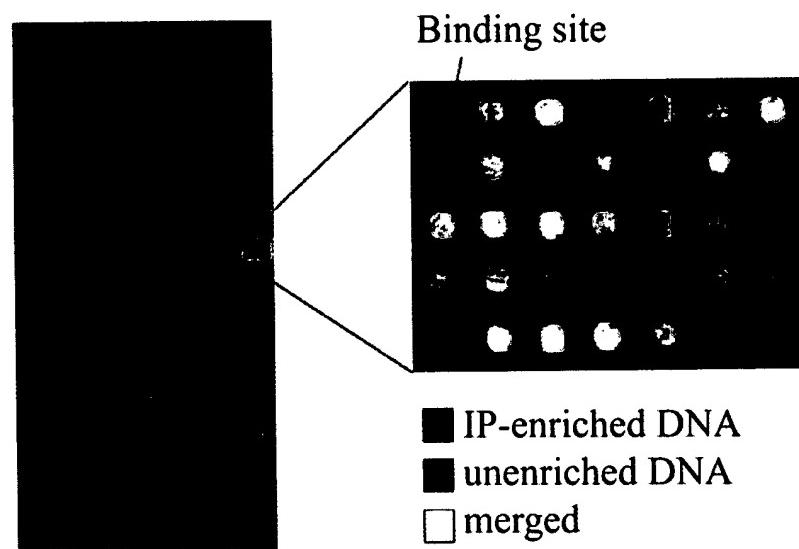


FIGURE 5A

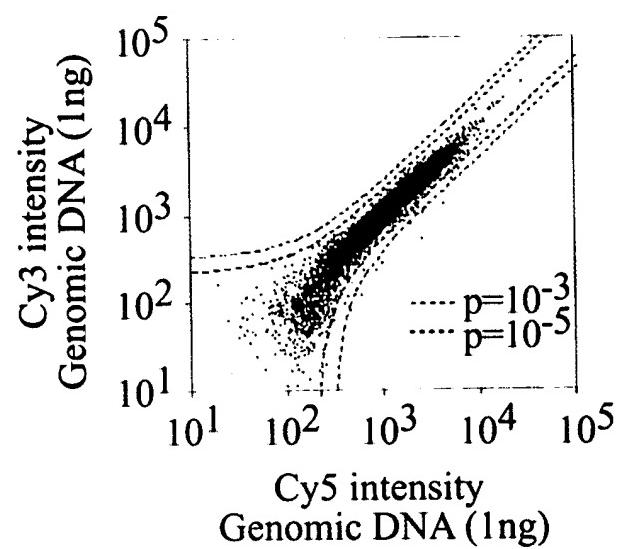


FIGURE 5B

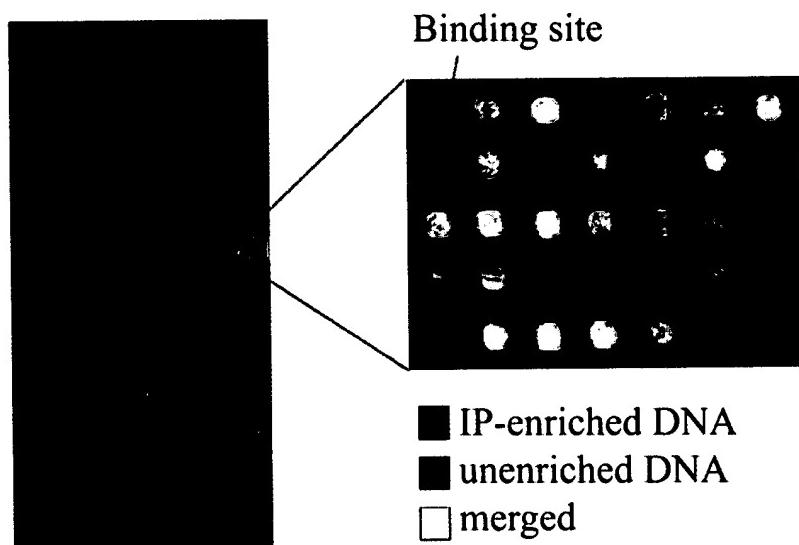


FIGURE 5A

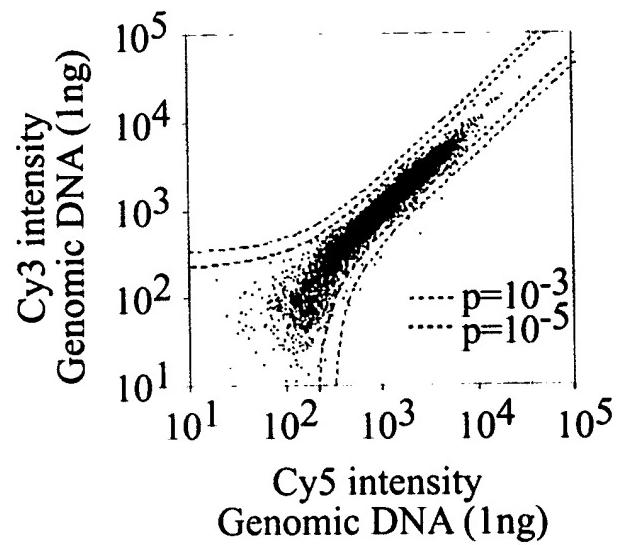


FIGURE 5B

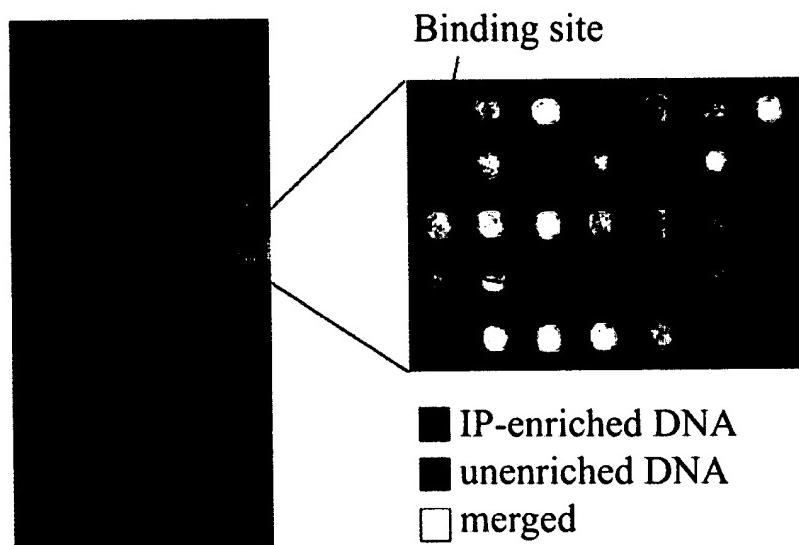


FIGURE 5A

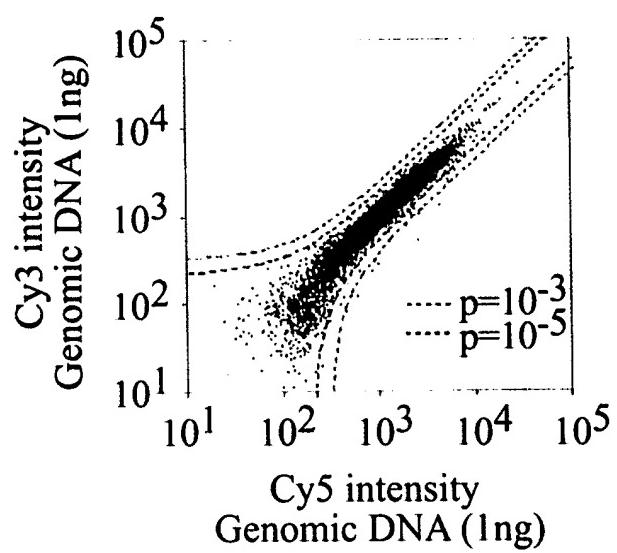
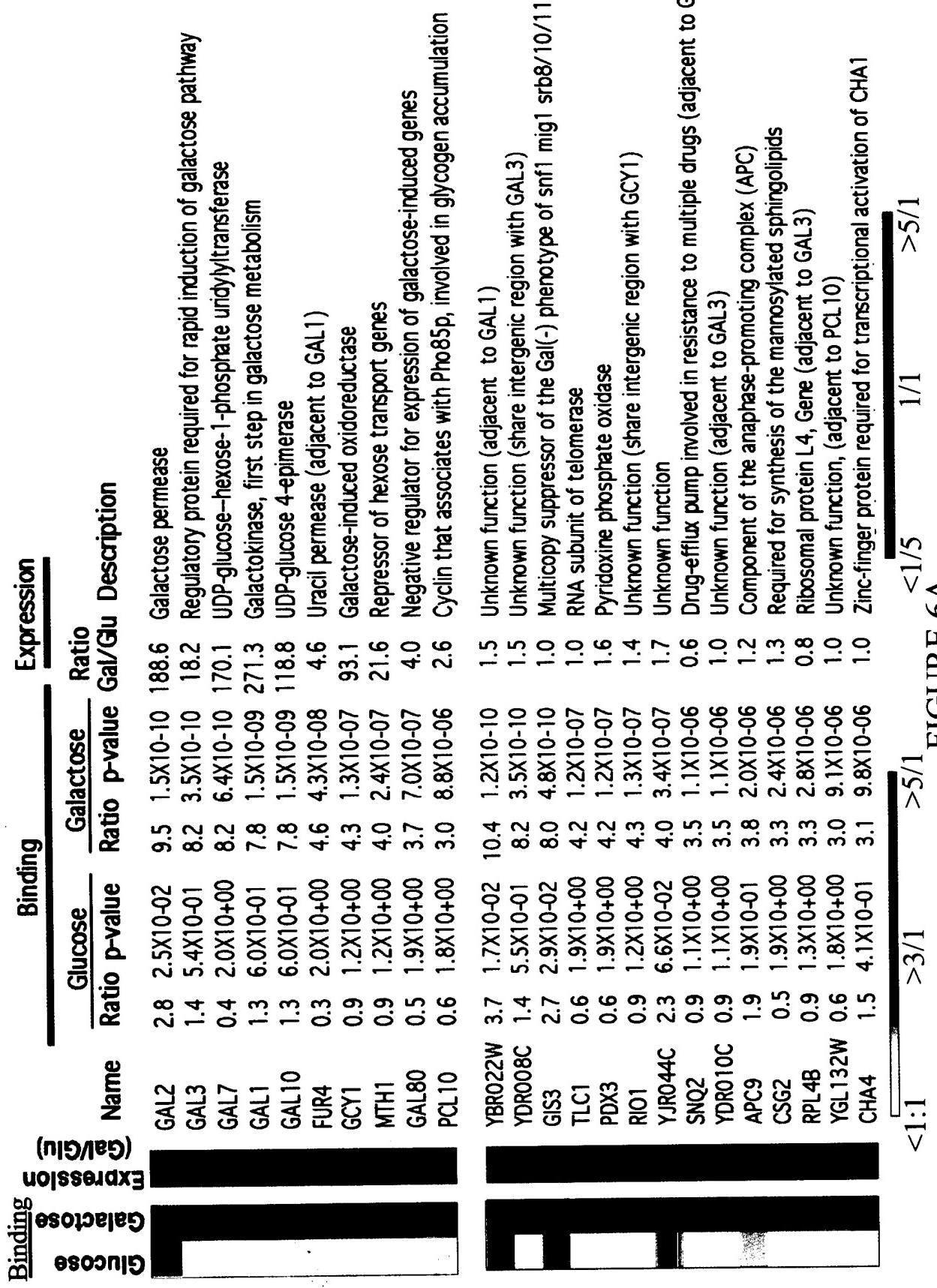


FIGURE 5B

Binding Galactose Expression (Gal/Glu)	Name	Binding		Expression		Description
		Glucose Ratio	p-value	Glucose Ratio	p-value	
[REDACTED]	GAL2	2.8	2.5X10-02	9.5	1.5X10-10	188.6 Galactose permease
[REDACTED]	GAL3	1.4	5.4X10-01	8.2	3.5X10-10	18.2 Regulatory protein required for rapid induction of galactose pathway
[REDACTED]	GAL7	0.4	2.0X10+00	8.2	6.4X10-10	170.1 UDP-glucose–hexose-1-phosphate uridylyltransferase
[REDACTED]	GAL1	1.3	6.0X10-01	7.8	1.5X10-09	271.3 Galactokinase, first step in galactose metabolism
[REDACTED]	GAL10	1.3	6.0X10-01	7.8	1.5X10-09	118.8 UDP-glucose 4-epimerase
[REDACTED]	FUR4	0.3	2.0X10+00	4.6	4.3X10-08	4.6 Uracil permease (adjacent to GAL1)
[REDACTED]	GCY1	0.9	1.2X10+00	4.3	1.3X10-07	93.1 Galactose-induced oxidoreductase
[REDACTED]	MTH1	0.9	1.2X10+00	4.0	2.4X10-07	21.6 Repressor of hexose transport genes
[REDACTED]	GAL80	0.5	1.9X10+00	3.7	7.0X10-07	4.0 Negative regulator for expression of galactose-induced genes
[REDACTED]	PCL10	0.6	1.8X10+00	3.0	8.8X10-06	2.6 Cyclin that associates with Pho85p, involved in glycogen accumulation
[REDACTED]	YBR022W	3.7	1.7X10-02	10.4	1.2X10-10	1.5 Unknown function (adjacent to GAL1)
[REDACTED]	YDR008C	1.4	5.5X10-01	8.2	3.5X10-10	1.5 Unknown function (share intergenic region with GAL3)
[REDACTED]	GIS3	2.7	2.9X10-02	8.0	4.8X10-10	1.0 Multicopy suppressor of the Gal(-) phenotype of snf1 mgl1 srb8/10/11 cells
[REDACTED]	TLC1	0.6	1.9X10+00	4.2	1.2X10-07	1.0 RNA subunit of telomerase
[REDACTED]	PDX3	0.6	1.9X10+00	4.2	1.2X10-07	1.6 Pyridoxine phosphate oxidase
[REDACTED]	RIO1	0.9	1.2X10+00	4.3	1.3X10-07	1.4 Unknown function (share intergenic region with GCY1)
[REDACTED]	YJR044C	2.3	6.6X10-02	4.0	3.4X10-07	1.7 Unknown function
[REDACTED]	SNQ2	0.9	1.1X10+00	3.5	1.1X10-06	0.6 Drug efflux pump involved in resistance to multiple drugs (adjacent to GAL3)
[REDACTED]	YDR010C	0.9	1.1X10+00	3.5	1.1X10-06	1.0 Unknown function (adjacent to GAL3)
[REDACTED]	APC9	1.9	1.9X10-01	3.8	2.0X10-06	1.2 Component of the anaphase-promoting complex (APC)
[REDACTED]	CSG2	0.5	1.9X10+00	3.3	2.4X10-06	1.3 Required for synthesis of the mannosylated sphingolipids
[REDACTED]	RPL4B	0.9	1.3X10+00	3.3	2.8X10-06	0.8 Ribosomal protein L4, Gene (adjacent to GAL3)
[REDACTED]	YGL132W	0.6	1.8X10+00	3.0	9.1X10-06	1.0 Unknown function, (adjacent to PCL10)
[REDACTED]	CHA4	1.5	4.1X10-01	3.1	9.8X10-06	1.0 Zinc-finger protein required for transcriptional activation of CHA1

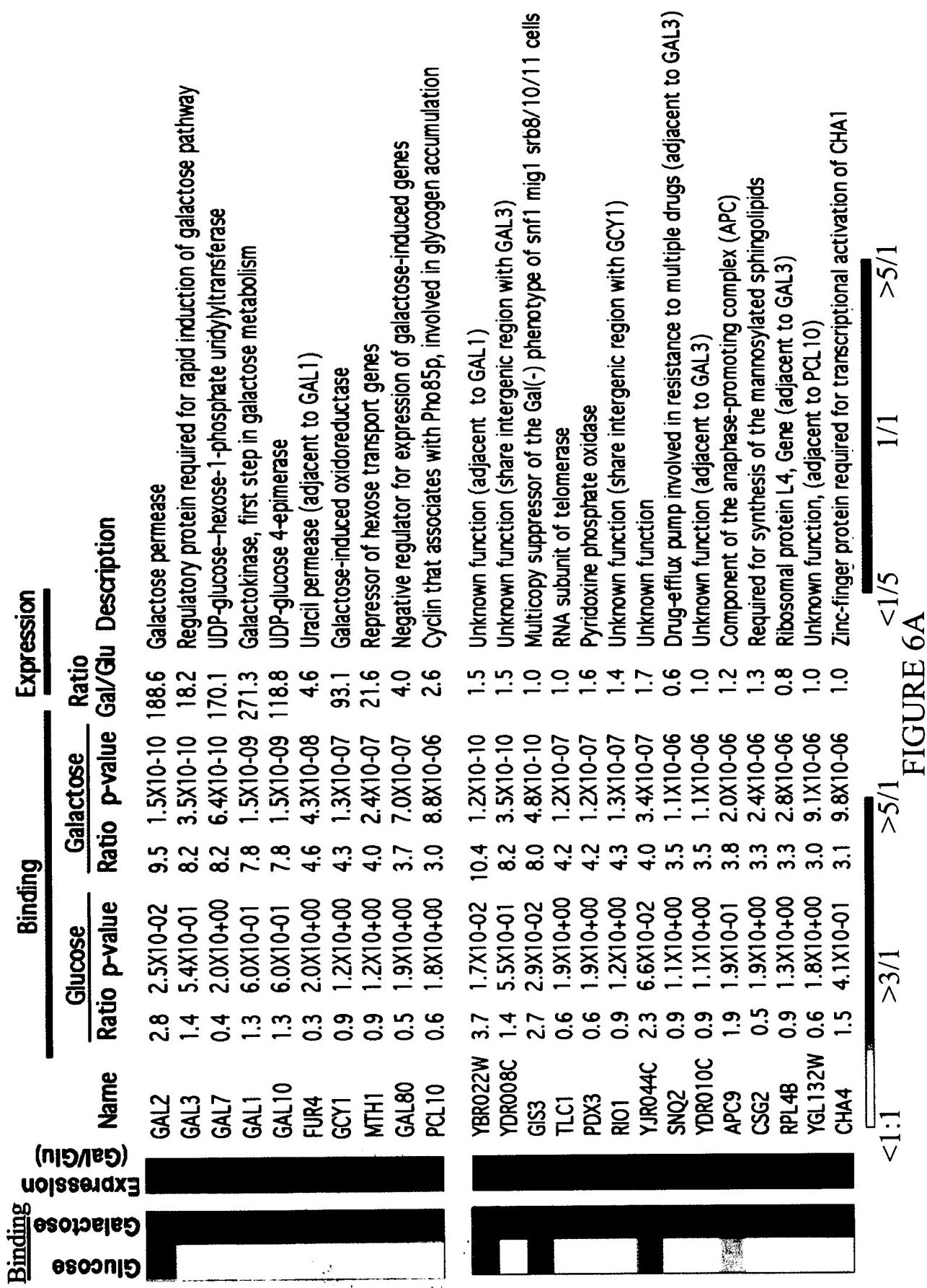
<1:1 >3/1 >5/1 <1/5 >5/1 1/1 FIGURE 6A >5/1 >5/1 >5/1



Name	Binding Glucose (Gal/Glu) Expression Galactose Glucose	Binding			Expression		
		Glucose Ratio	p-value	Galactose Ratio	p-value	Gal/Glu	Description
GAL2	2.8	2.5X10-02	9.5	1.5X10-10	188.6	Galactose permease	
GAL3	1.4	5.4X10-01	8.2	3.5X10-10	18.2	Regulatory protein required for rapid induction of galactose pathway	
GAL7	0.4	2.0X10+00	8.2	6.4X10-10	170.1	UDP-glucose–hexose-1-phosphate uridylyltransferase	
GAL1	1.3	6.0X10-01	7.8	1.5X10-09	271.3	Galactokinase, first step in galactose metabolism	
GAL10	1.3	6.0X10-01	7.8	1.5X10-09	118.8	UDP-glucose 4-epimerase	
FUR4	0.3	2.0X10+00	4.6	4.3X10-08	4.6	Uracil permease (adjacent to GAL1)	
GCY1	0.9	1.2X10+00	4.3	1.3X10-07	93.1	Galactose-induced oxidoreductase	
MTH1	0.9	1.2X10+00	4.0	2.4X10-07	21.6	Repressor of hexose transport genes	
GAL80	0.5	1.9X10+00	3.7	7.0X10-07	4.0	Negative regulator for expression of galactose-induced genes	
PCL10	0.6	1.8X10+00	3.0	8.8X10-06	2.6	Cyclin that associates with Pho85p, involved in glycogen accumulation	
YBR022W	3.7	1.7X10-02	10.4	1.2X10-10	1.5	Unknown function (adjacent to GAL1)	
YDR008C	1.4	5.5X10-01	8.2	3.5X10-10	1.5	Unknown function (share intergenic region with GAL3)	
GIS3	2.7	2.9X10-02	8.0	4.8X10-10	1.0	Multicopy suppressor of the Gal(-) phenotype of snf1 mig1 srb8/10/11 cells	
TLC1	0.6	1.9X10+00	4.2	1.2X10-07	1.0	RNA subunit of telomerase	
PDX3	0.6	1.9X10+00	4.2	1.2X10-07	1.6	Pyridoxine phosphate oxidase	
RIO1	0.9	1.2X10+00	4.3	1.3X10-07	1.4	Unknown function (share intergenic region with GCY1)	
YJR044C	2.3	6.6X10-02	4.0	3.4X10-07	1.7	Unknown function	
SNQ2	0.9	1.1X10+00	3.5	1.1X10-06	0.6	Drug-efflux pump involved in resistance to multiple drugs (adjacent to GAL3)	
YDR010C	0.9	1.1X10+00	3.5	1.1X10-06	1.0	Unknown function (adjacent to GAL3)	
APC9	1.9	1.9X10-01	3.8	2.0X10-06	1.2	Component of the anaphase-promoting complex (APC)	
CSG2	0.5	1.9X10+00	3.3	2.4X10-06	1.3	Required for synthesis of the mannosylated sphingolipids	
RPL4B	0.9	1.3X10+00	3.3	2.8X10-06	0.8	Ribosomal protein L4, Gene (adjacent to GAL3)	
YGL132W	0.6	1.8X10+00	3.0	9.1X10-06	1.0	Unknown function, (adjacent to PCL10)	
CHA4	1.5	4.1X10-01	3.1	9.8X10-06	1.0	Zinc-finger protein required for transcriptional activation of CHA1	

<1:1 >3/1 >5/1 <1/5 >5/1 <1/5 >5/1 >5/1

FIGURE 6A



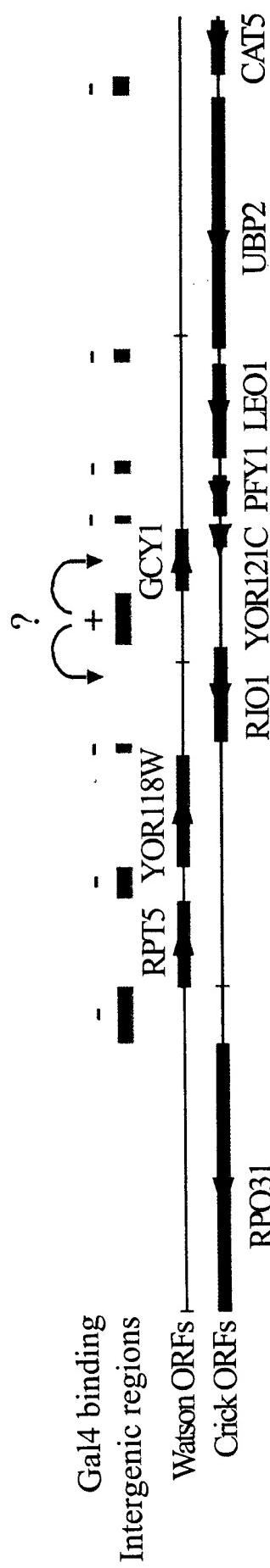


FIGURE 6B

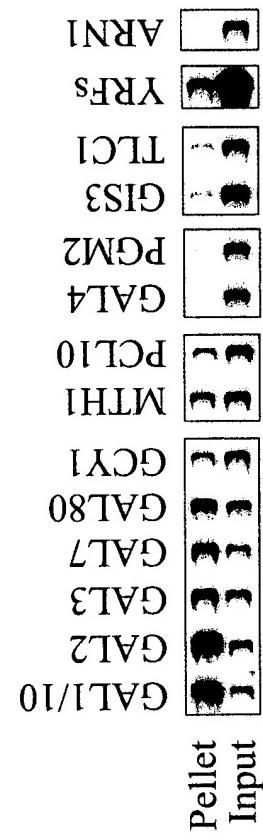


FIGURE 6C

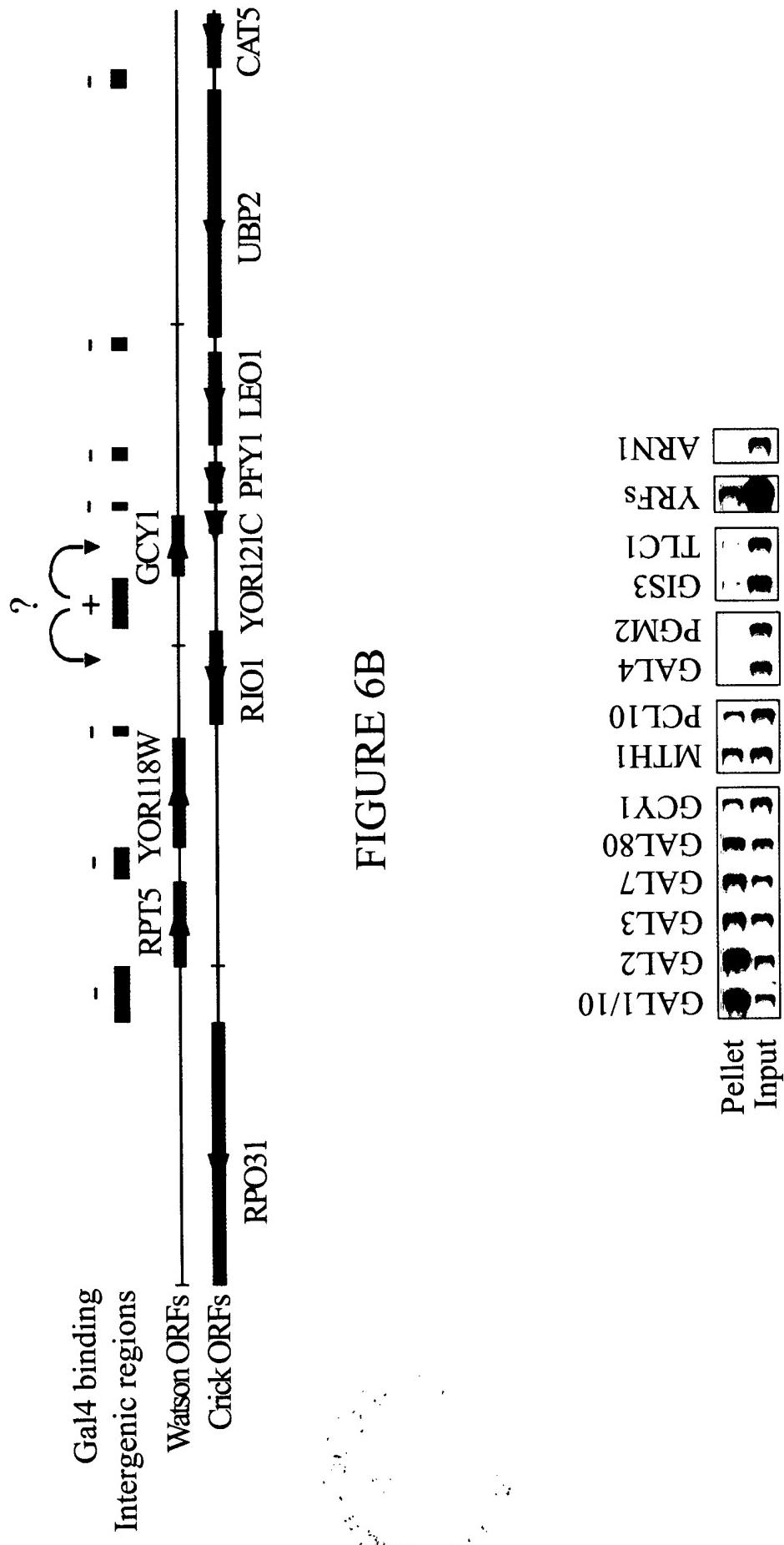


FIGURE 6B

FIGURE 6C

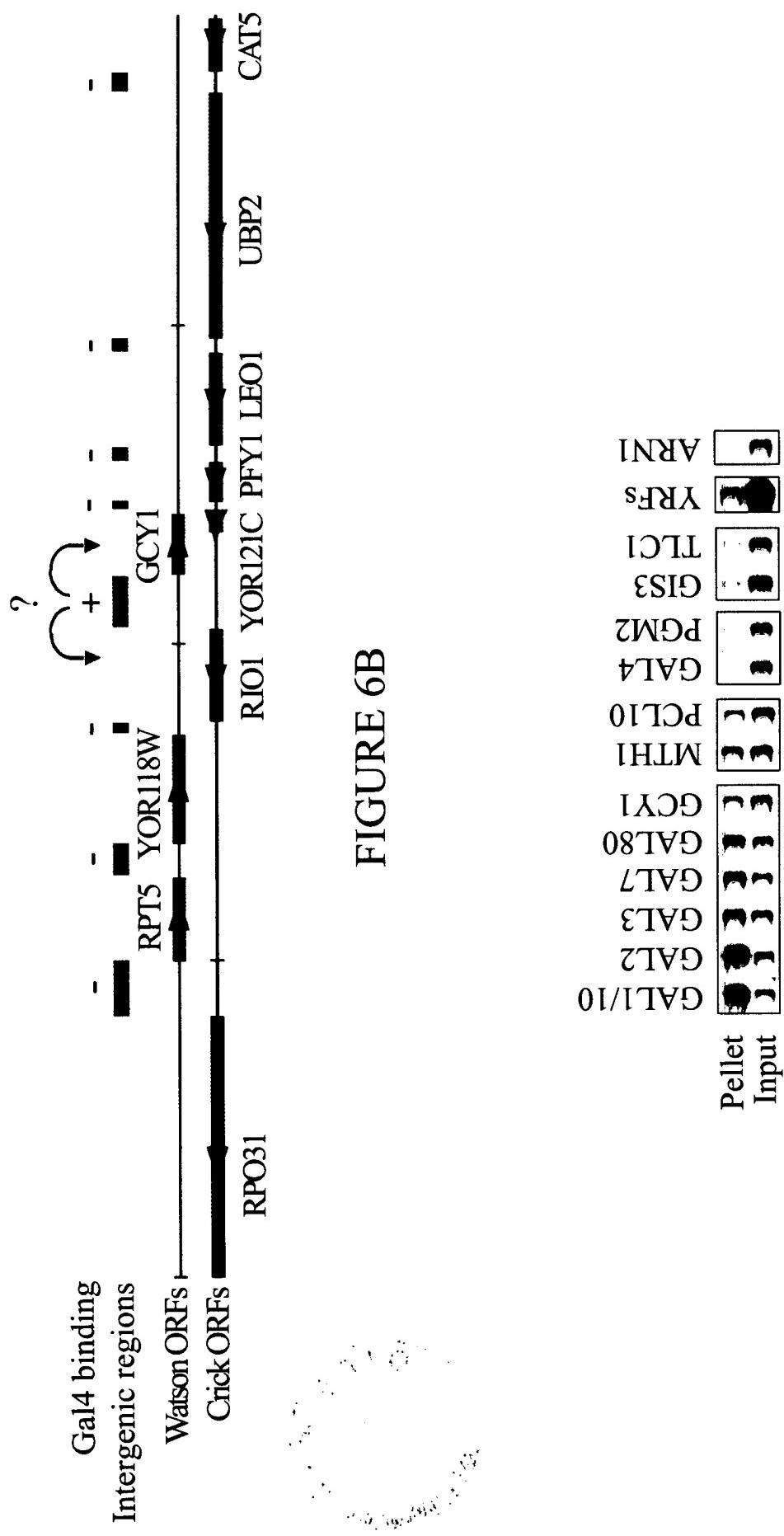


FIGURE 6B

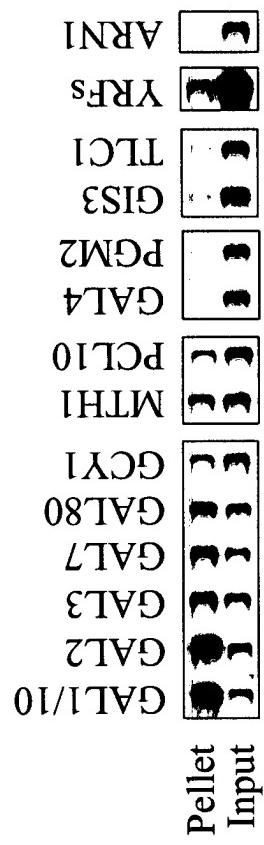


FIGURE 6C

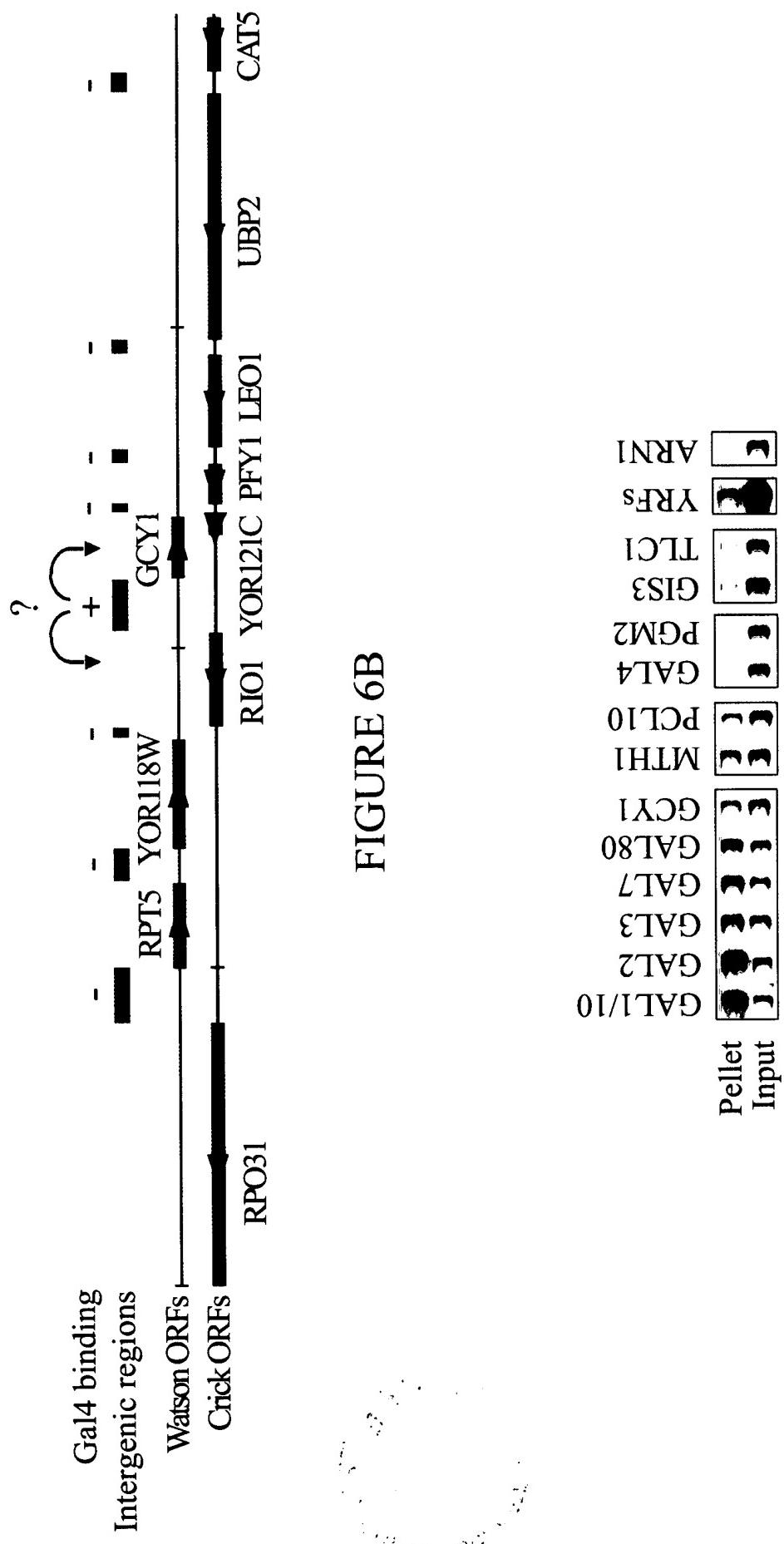


FIGURE 6B

FIGURE 6C

App No.: 10/032,281 10032281 . 060602  
Title: Genome-Wide Location and Function  
Inventors: John Wyrick, *et al.*

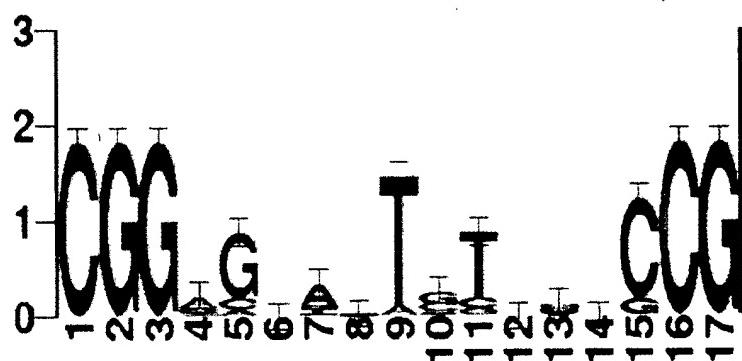


FIGURE 6D

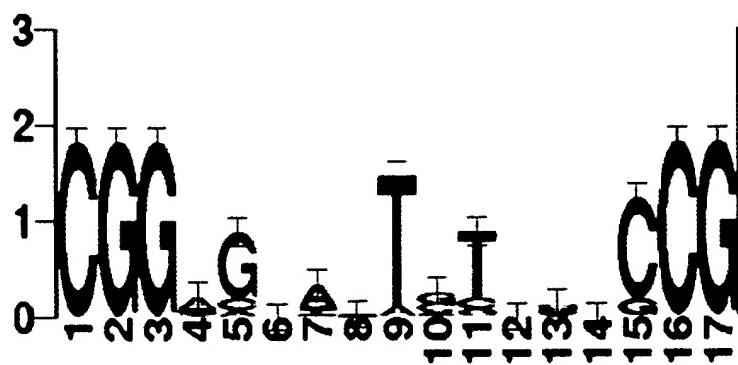


FIGURE 6D

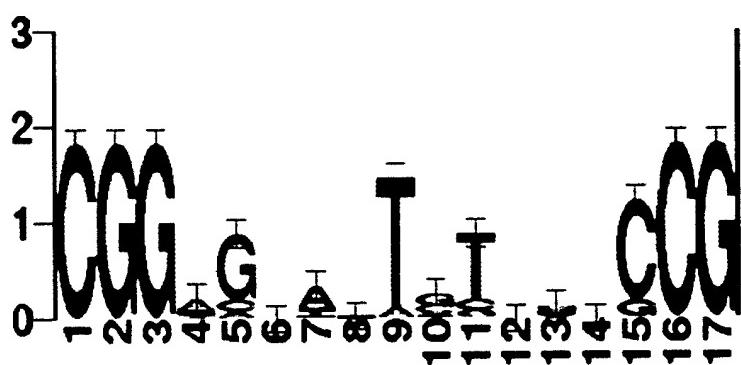


FIGURE 6D

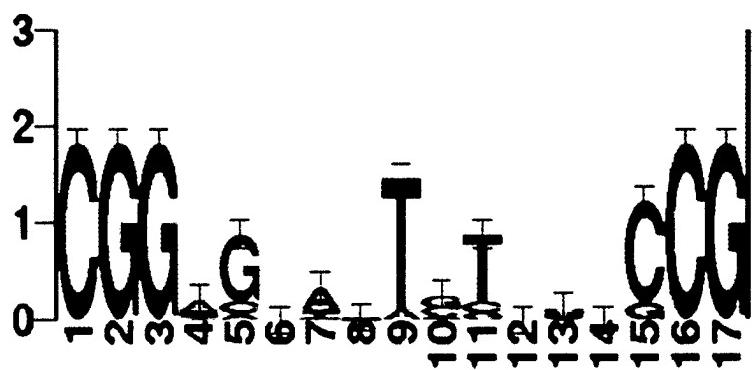


FIGURE 6D

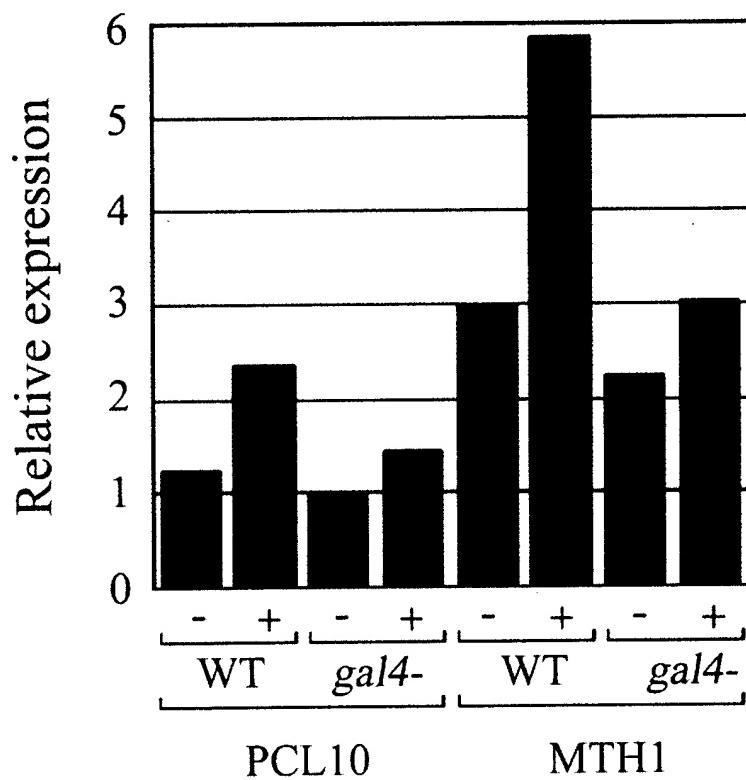


FIGURE 6E

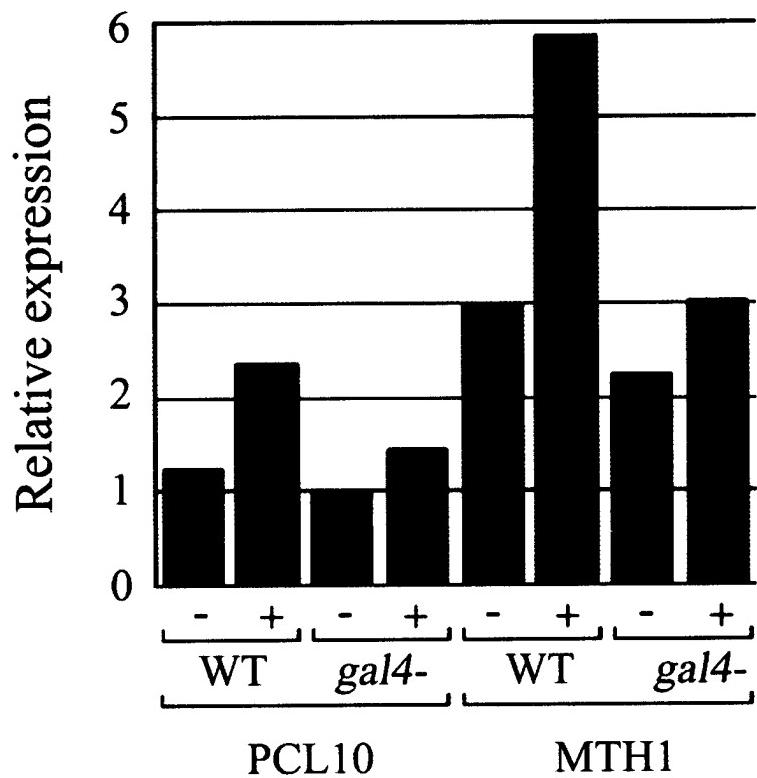


FIGURE 6E

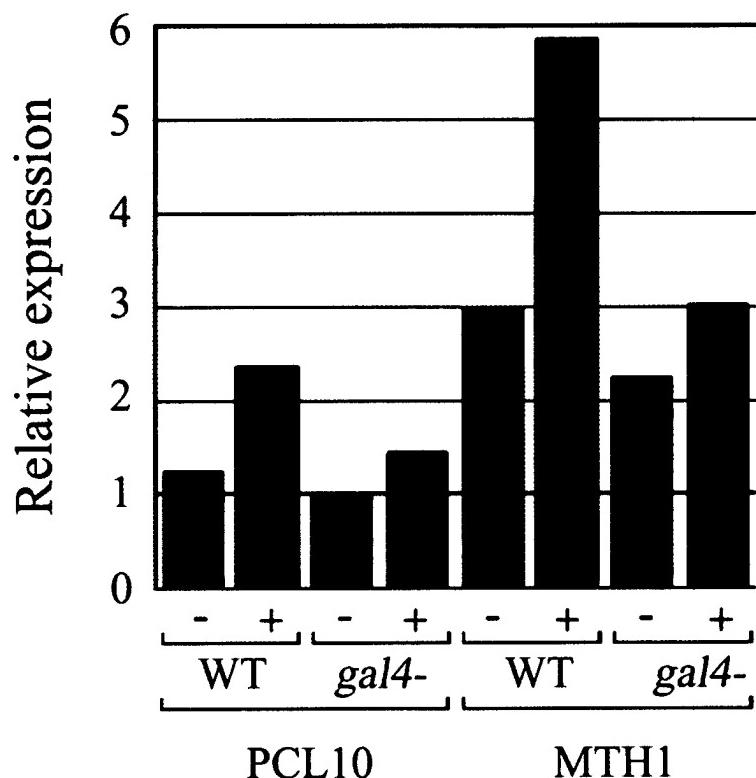


FIGURE 6E

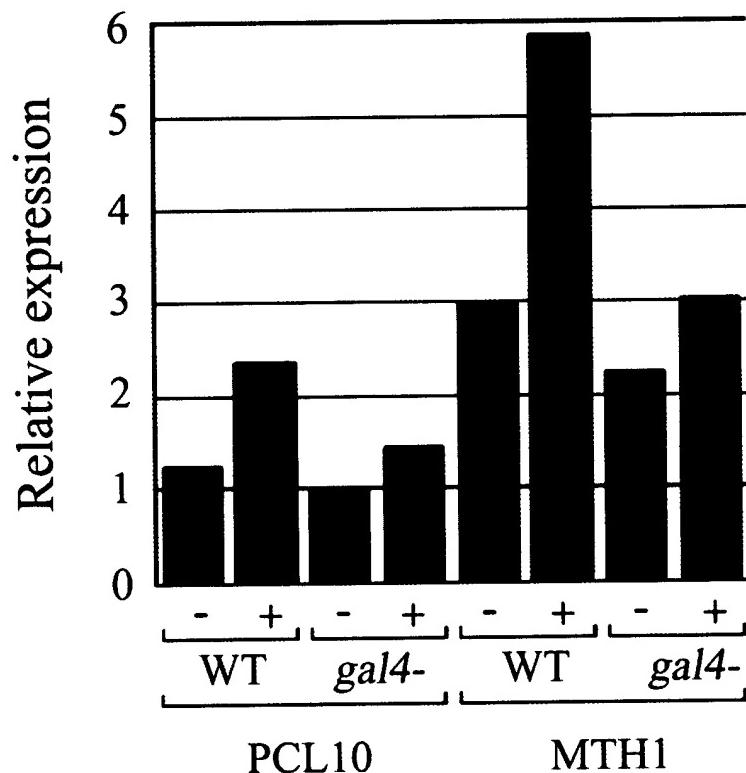


FIGURE 6E

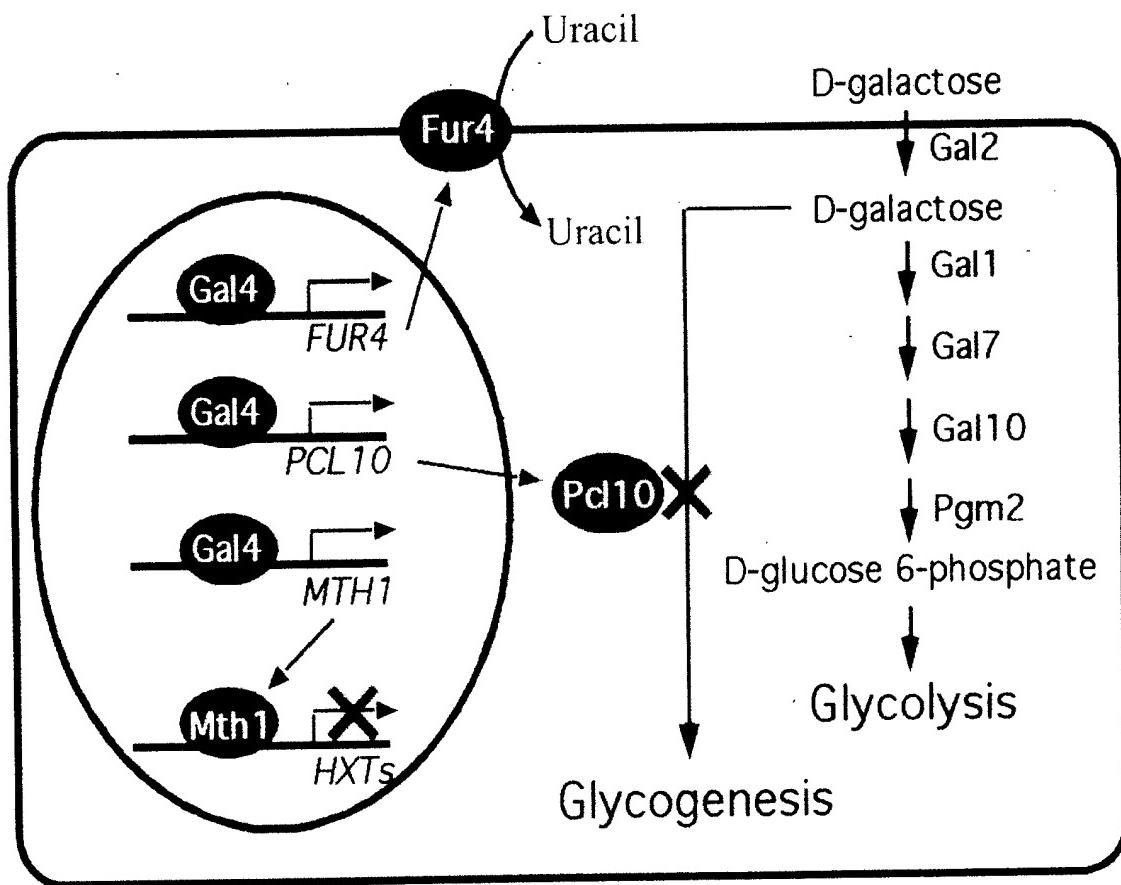


FIGURE 6F

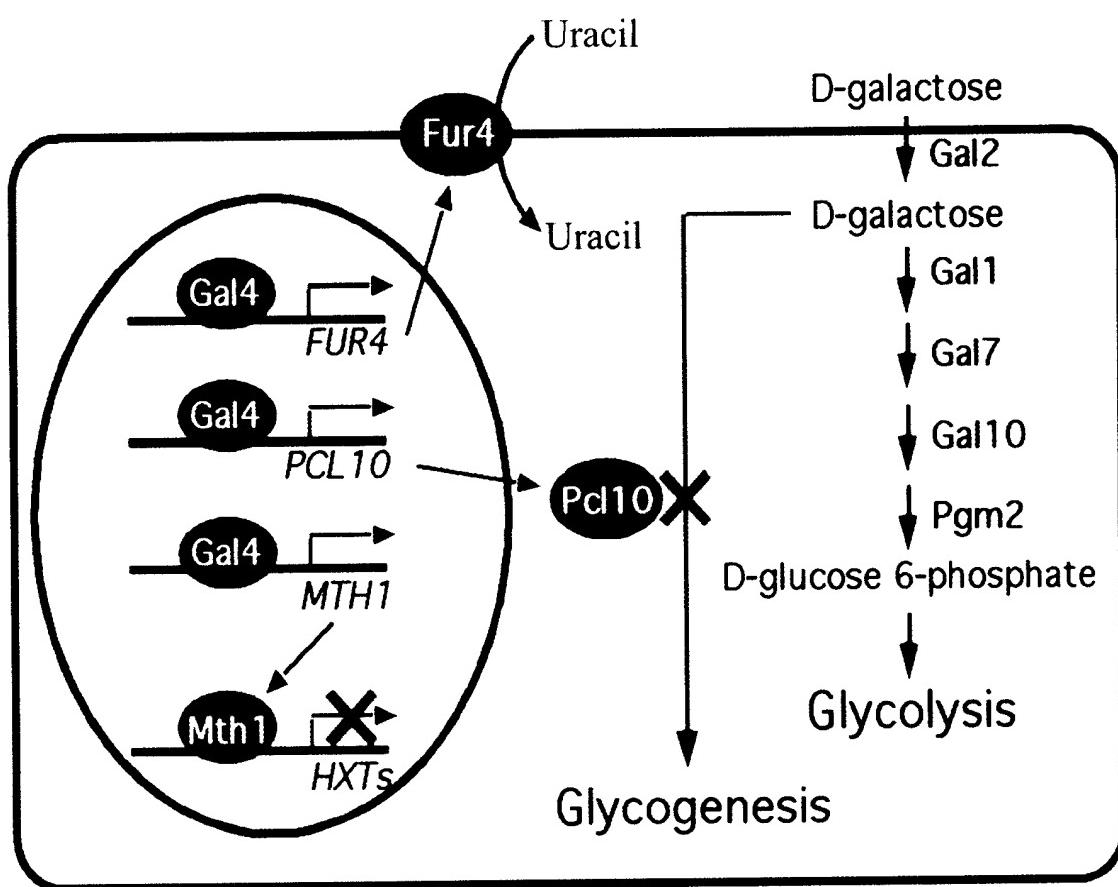


FIGURE 6F

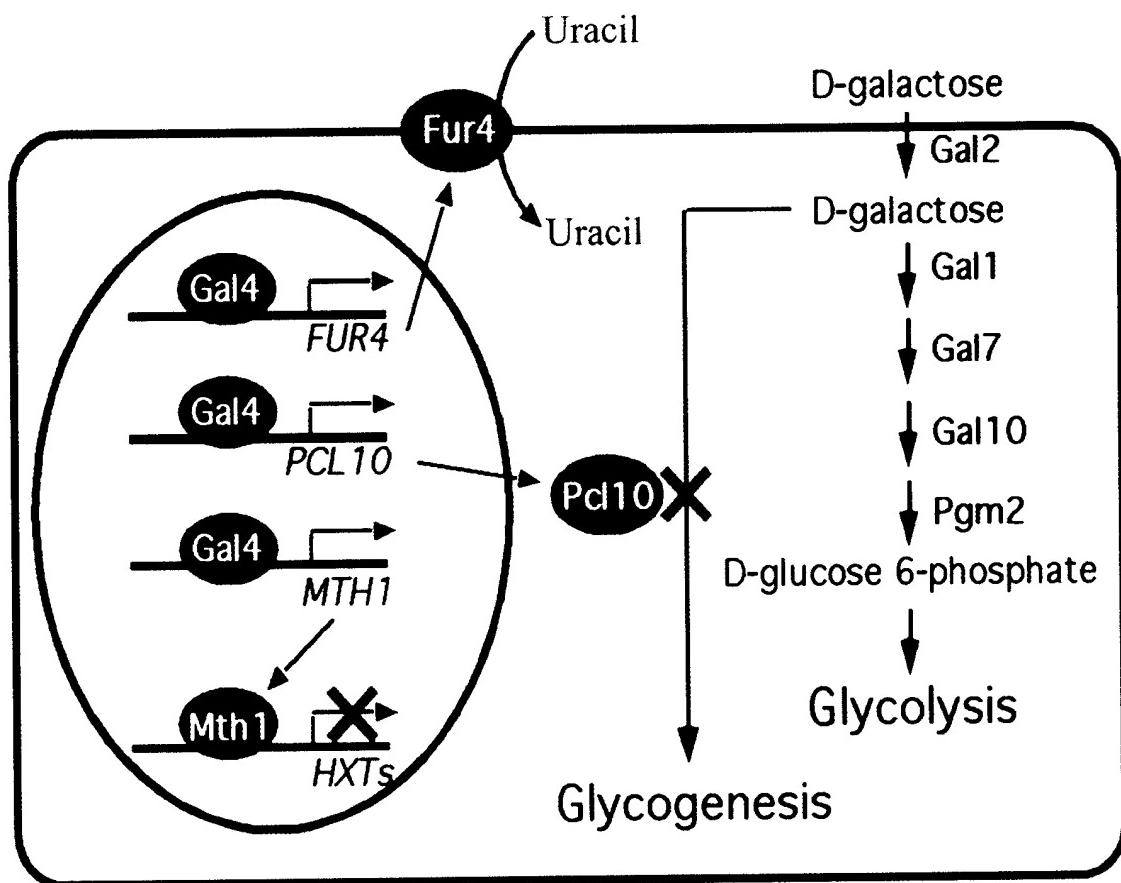


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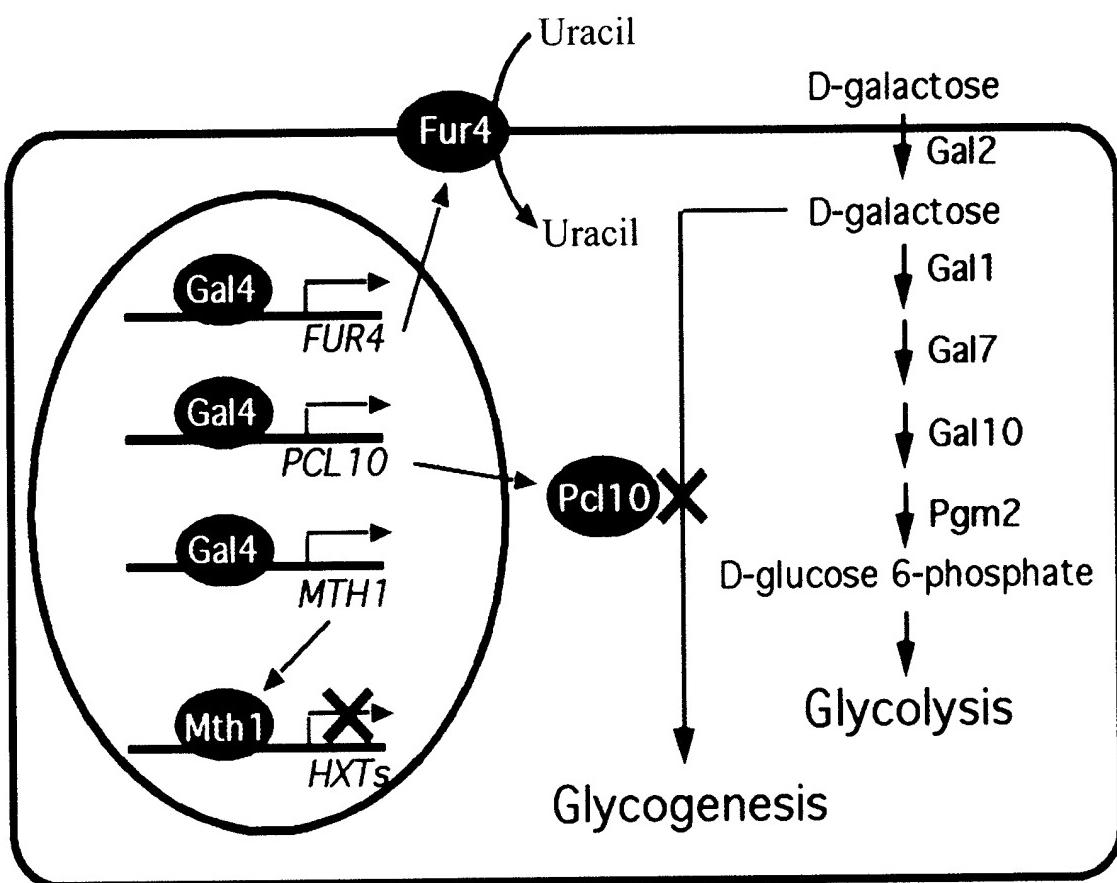


FIGURE 6F

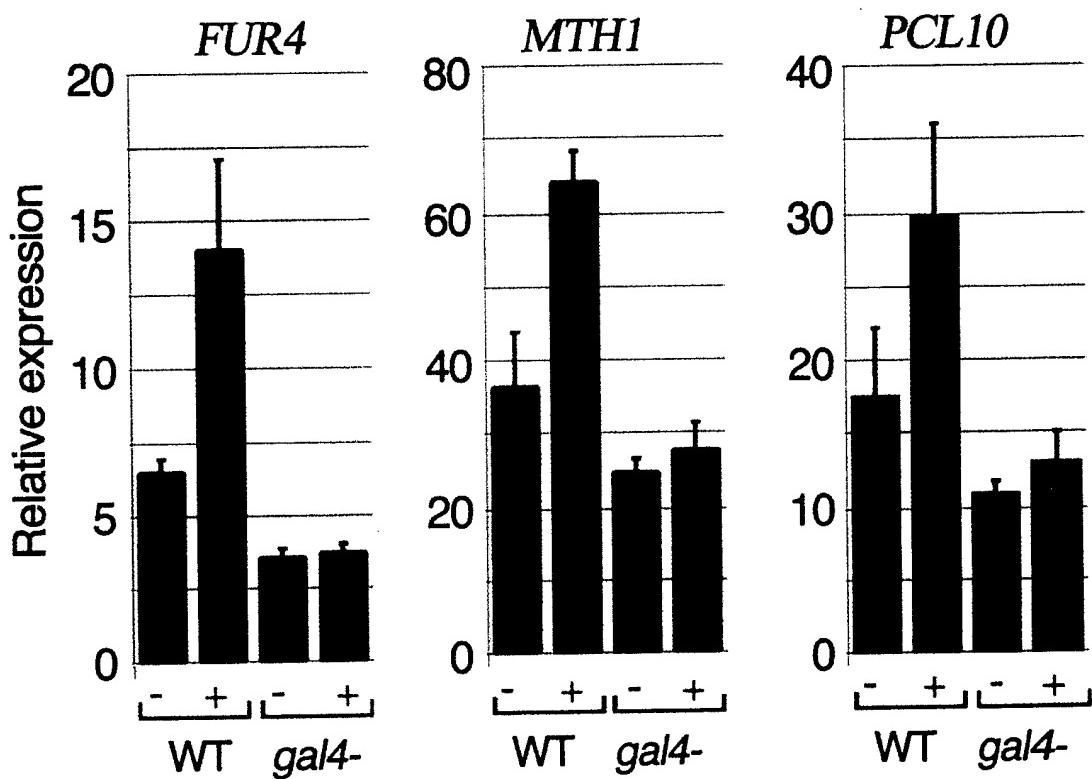


FIGURE 6G

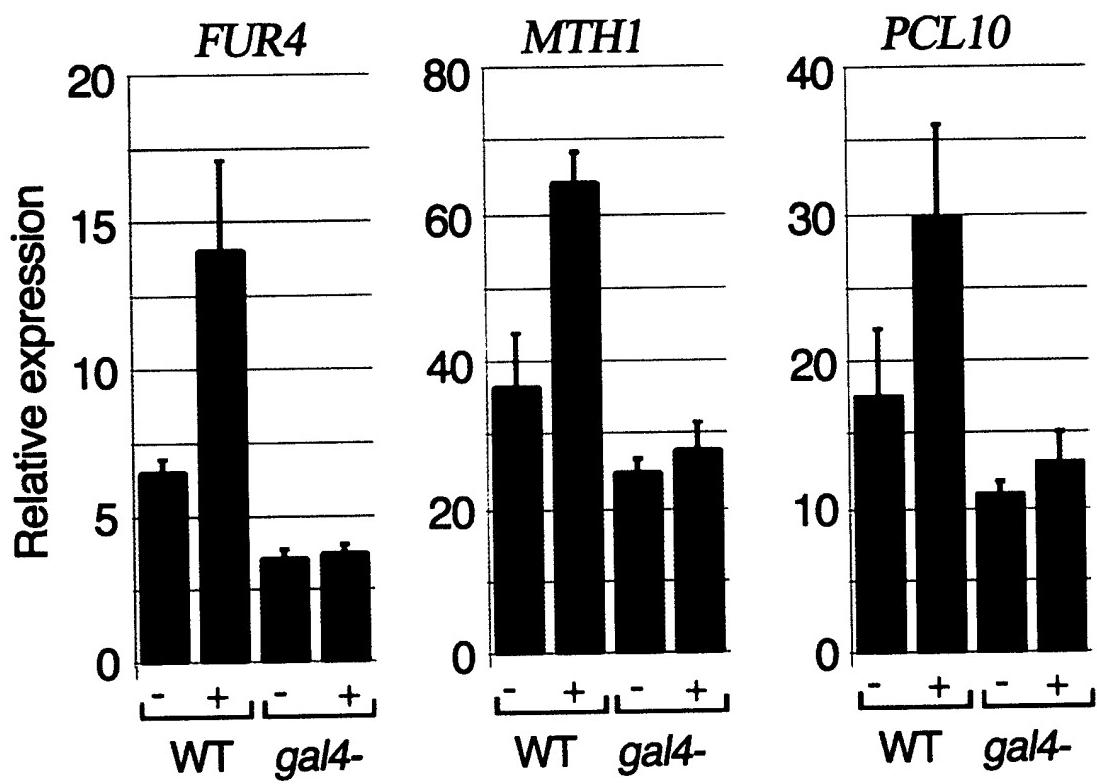


FIGURE 6G

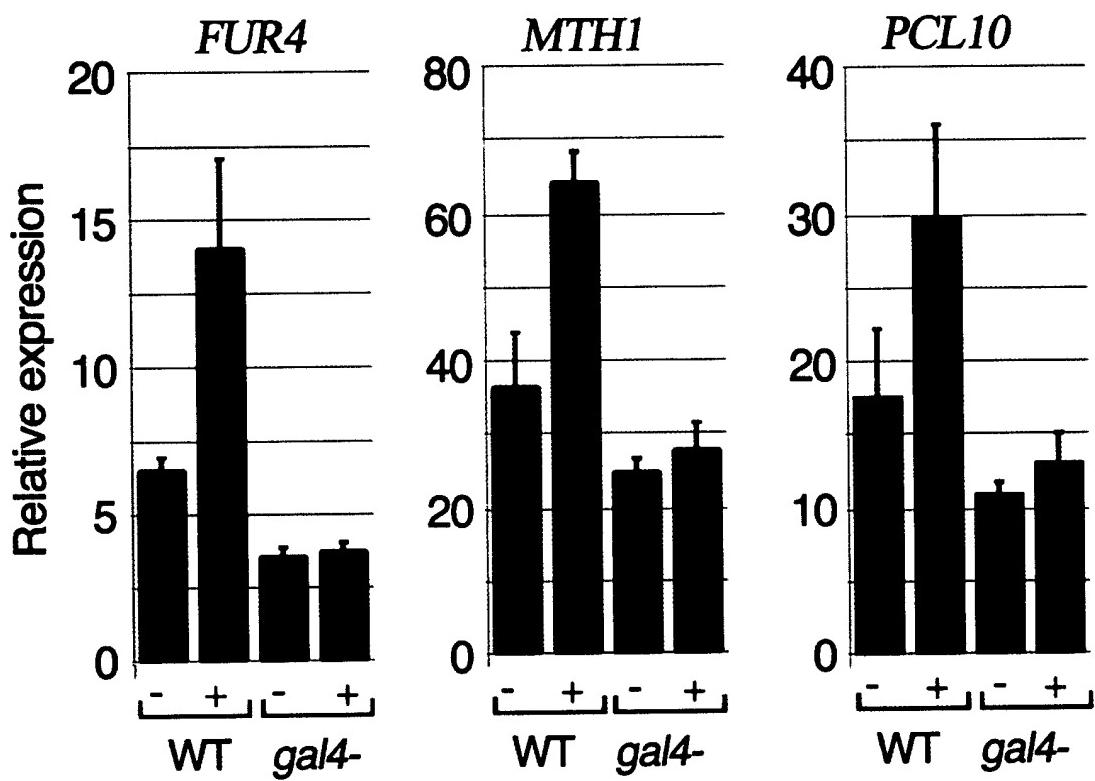


FIGURE 6G

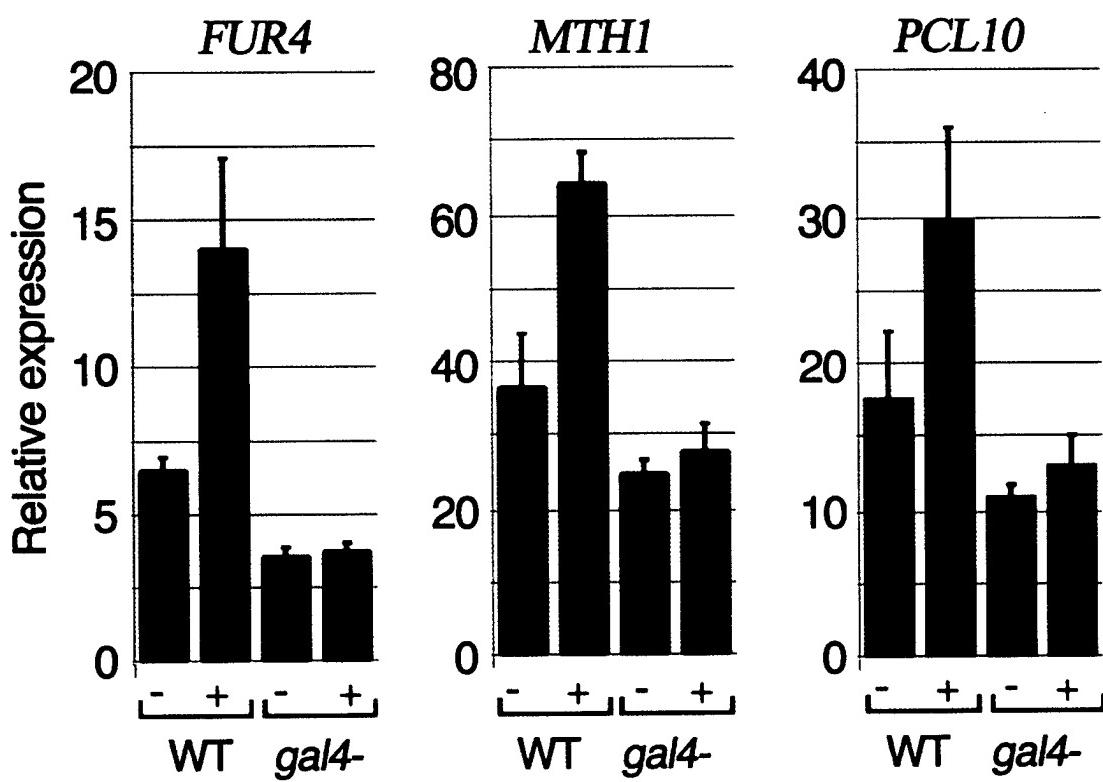


FIGURE 6G

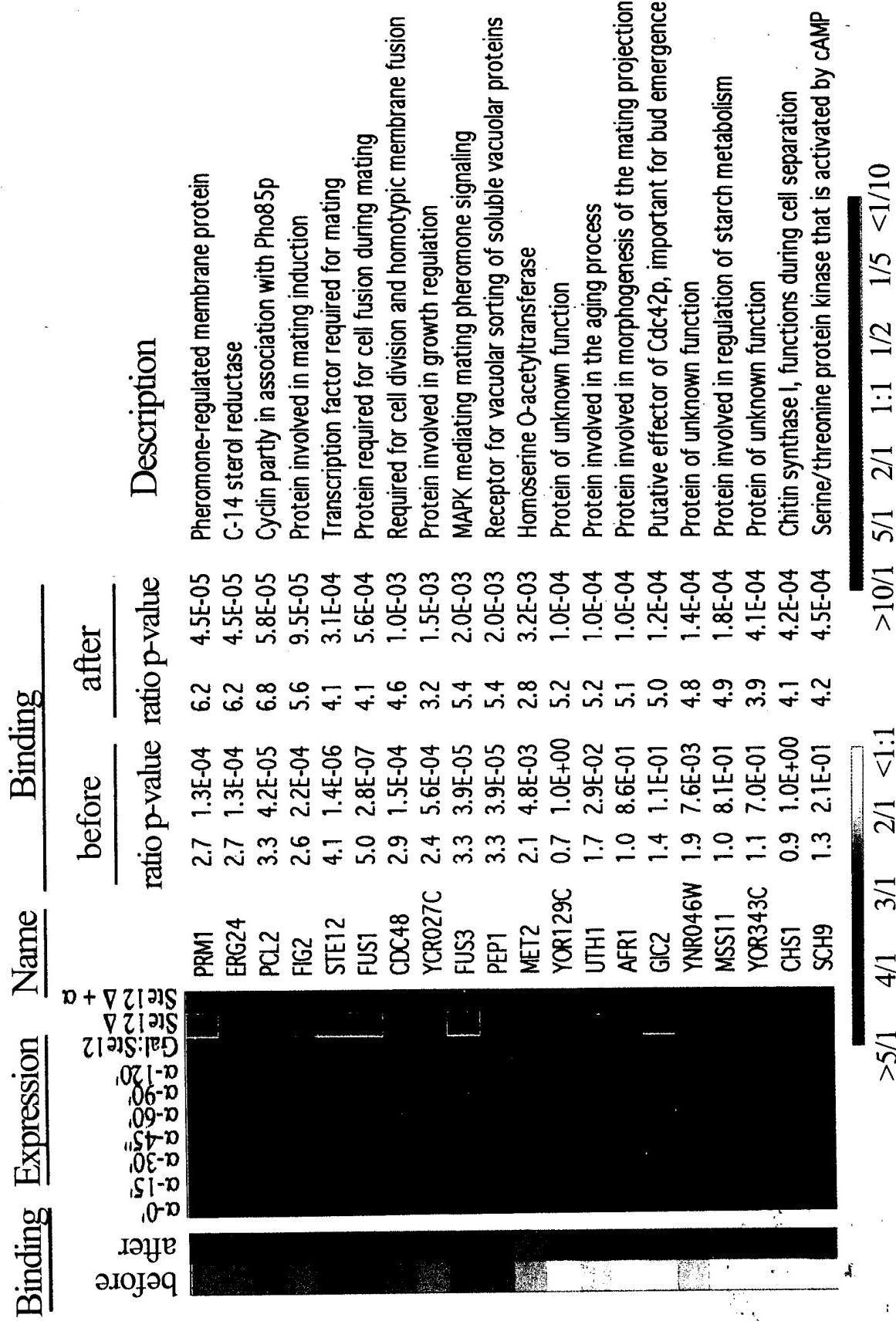


FIGURE 7A

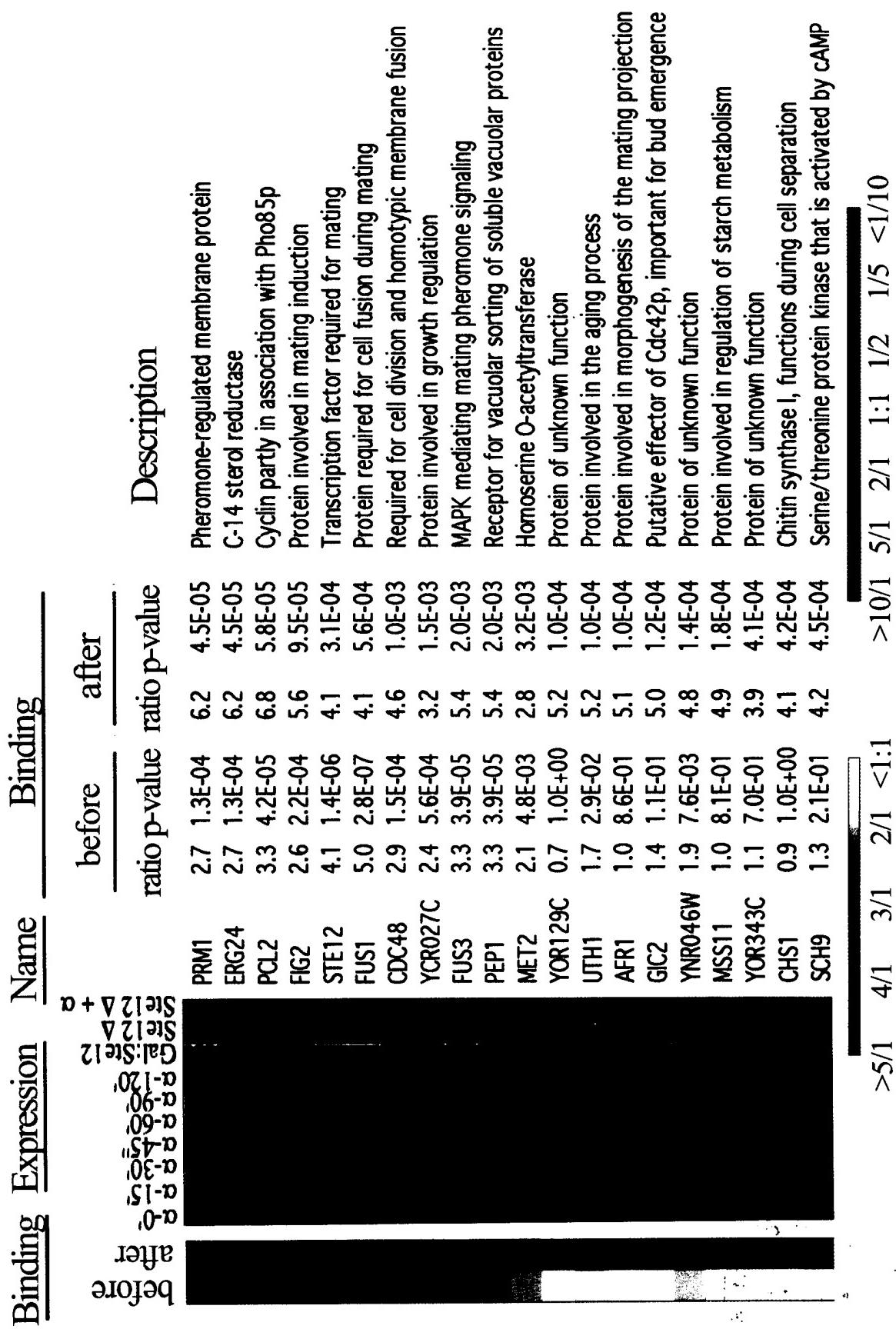


FIGURE 7A

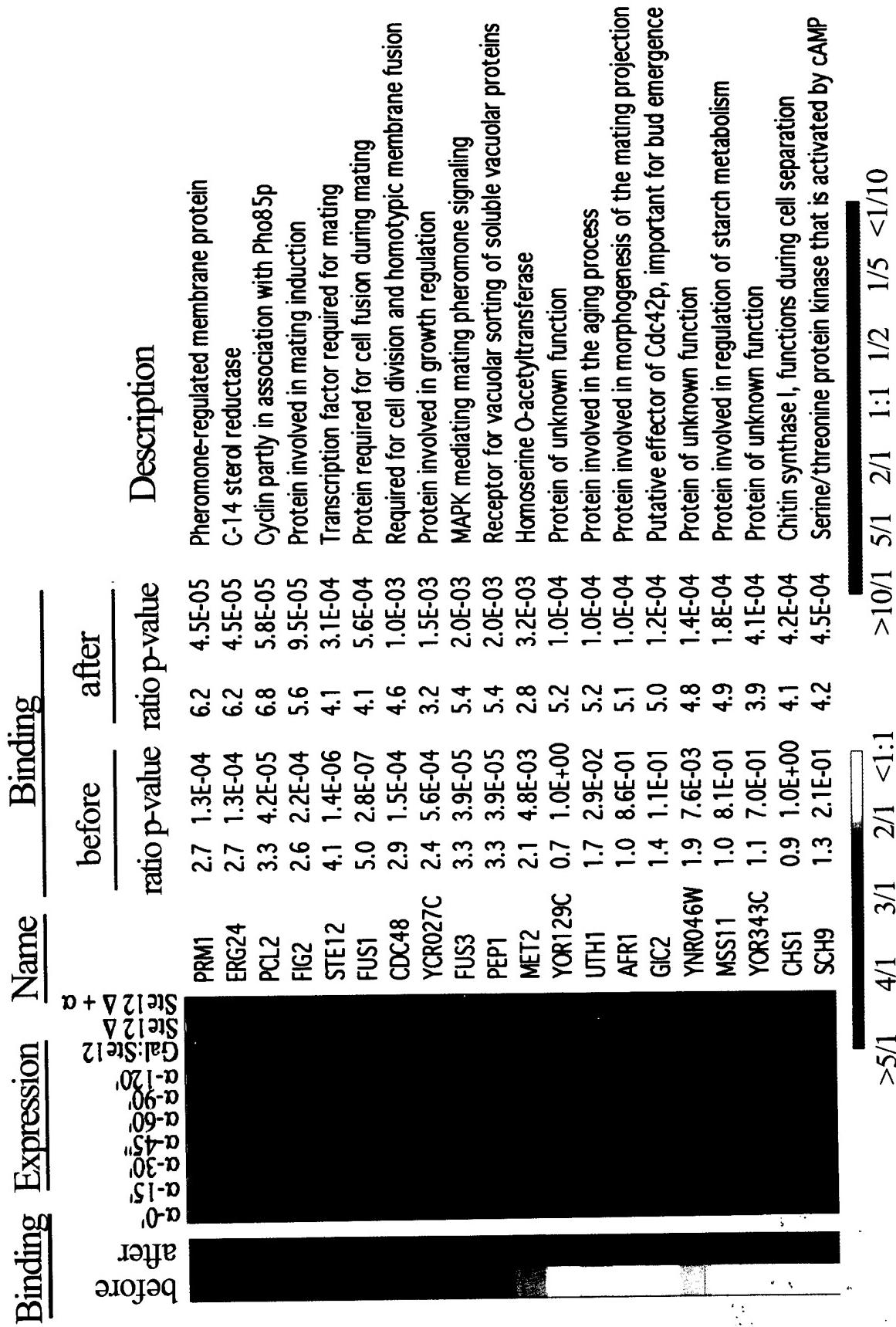


FIGURE 7A

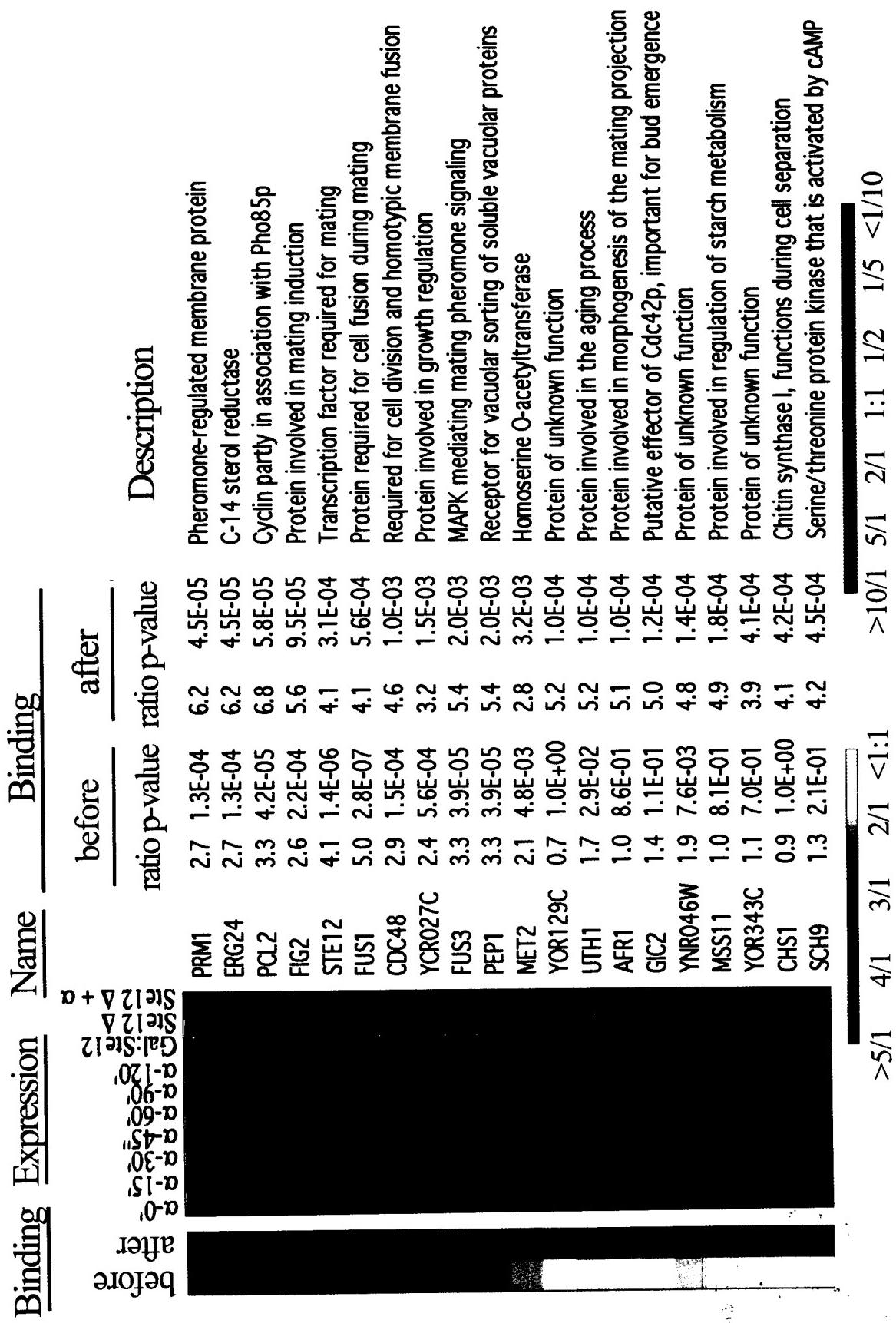


FIGURE 7A

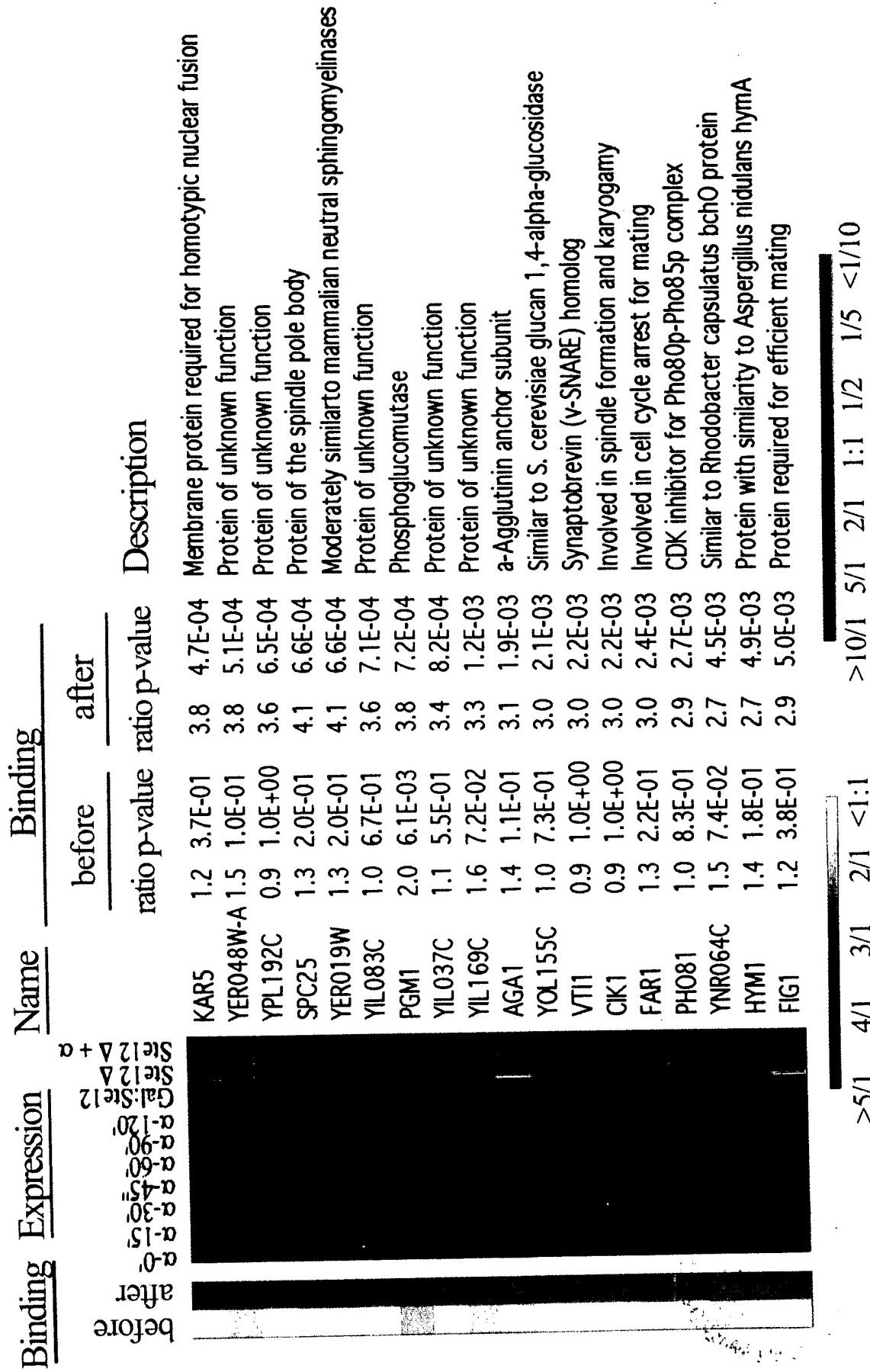


FIGURE 7B

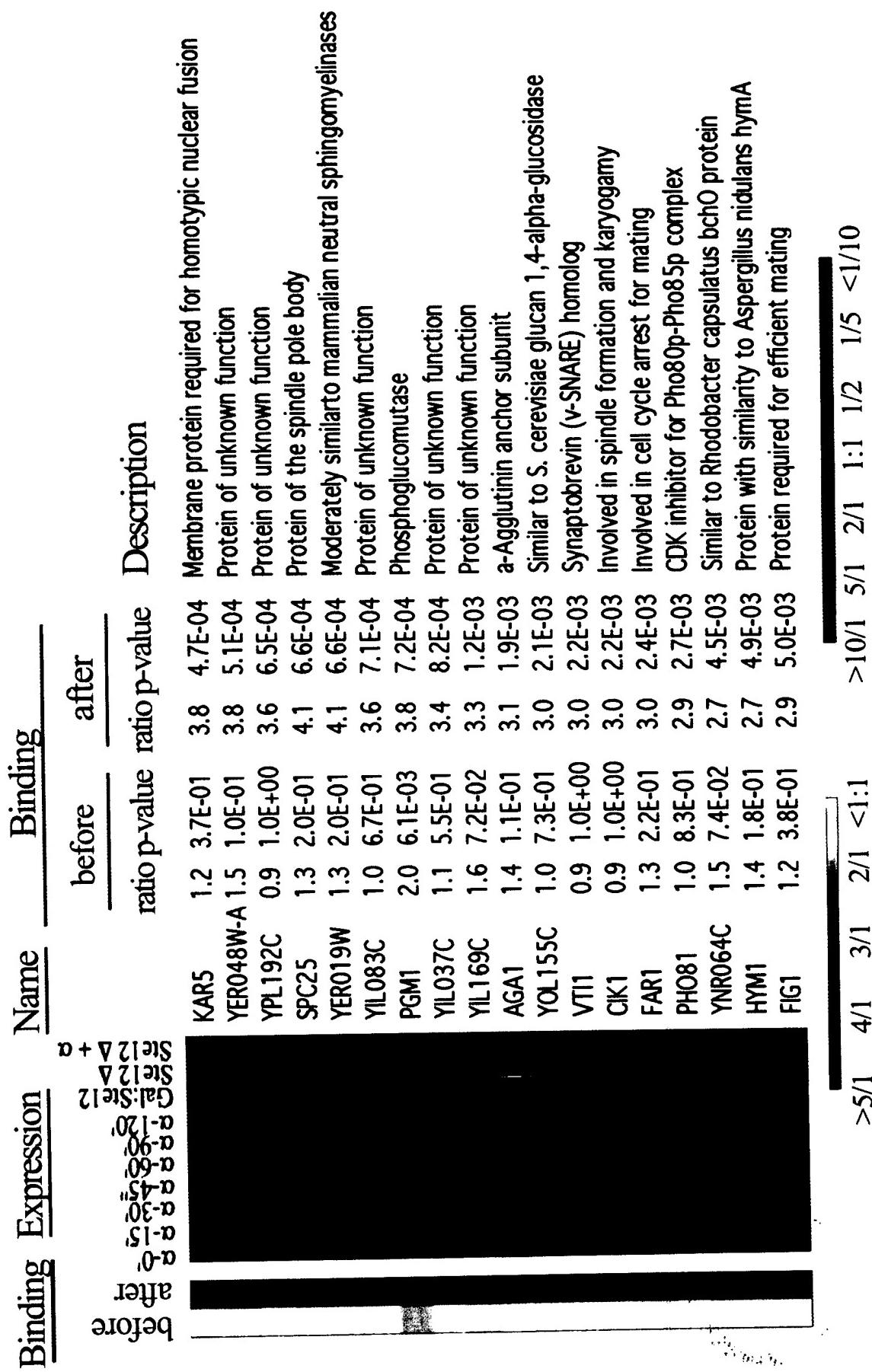


FIGURE 7B

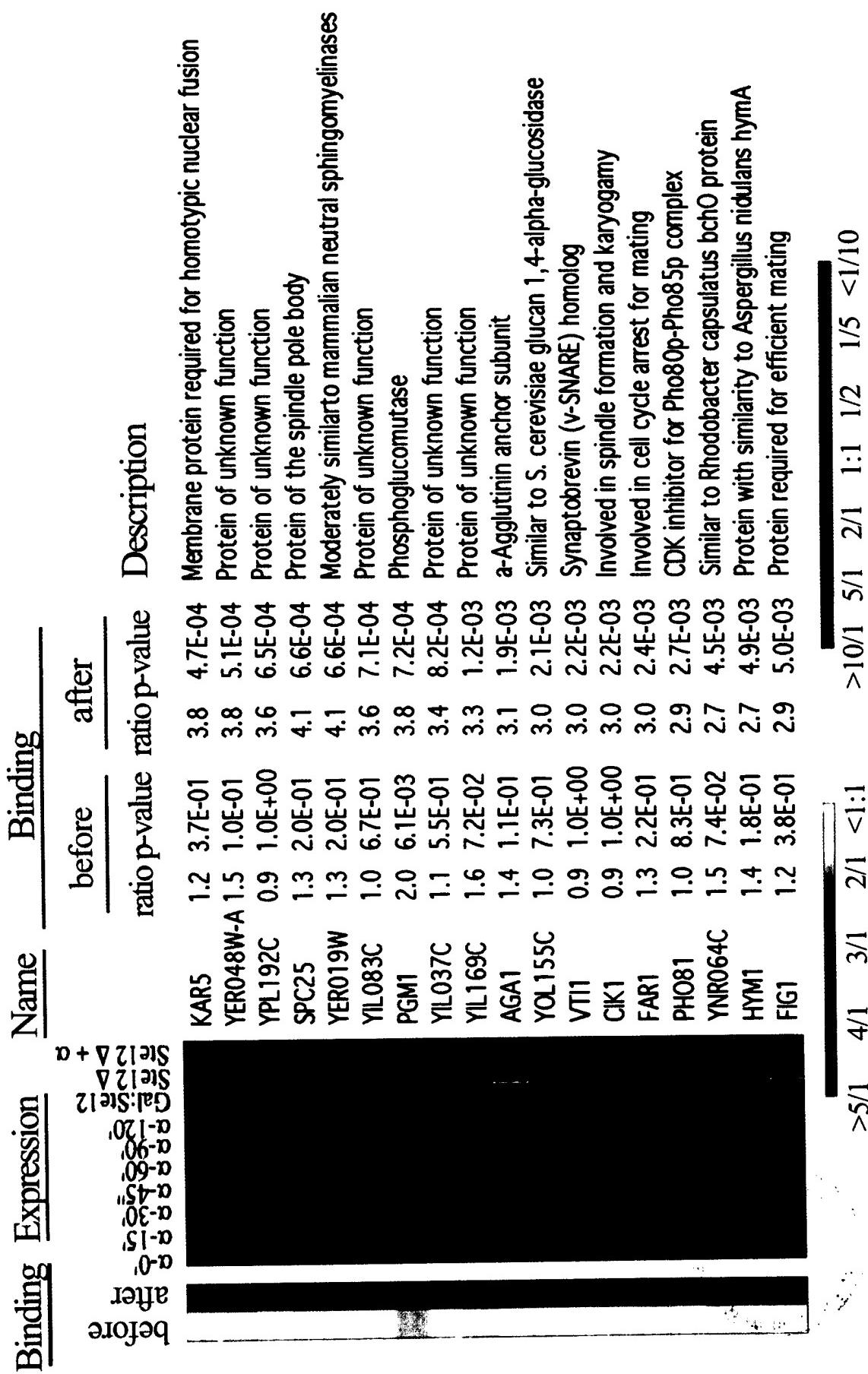


FIGURE 7B

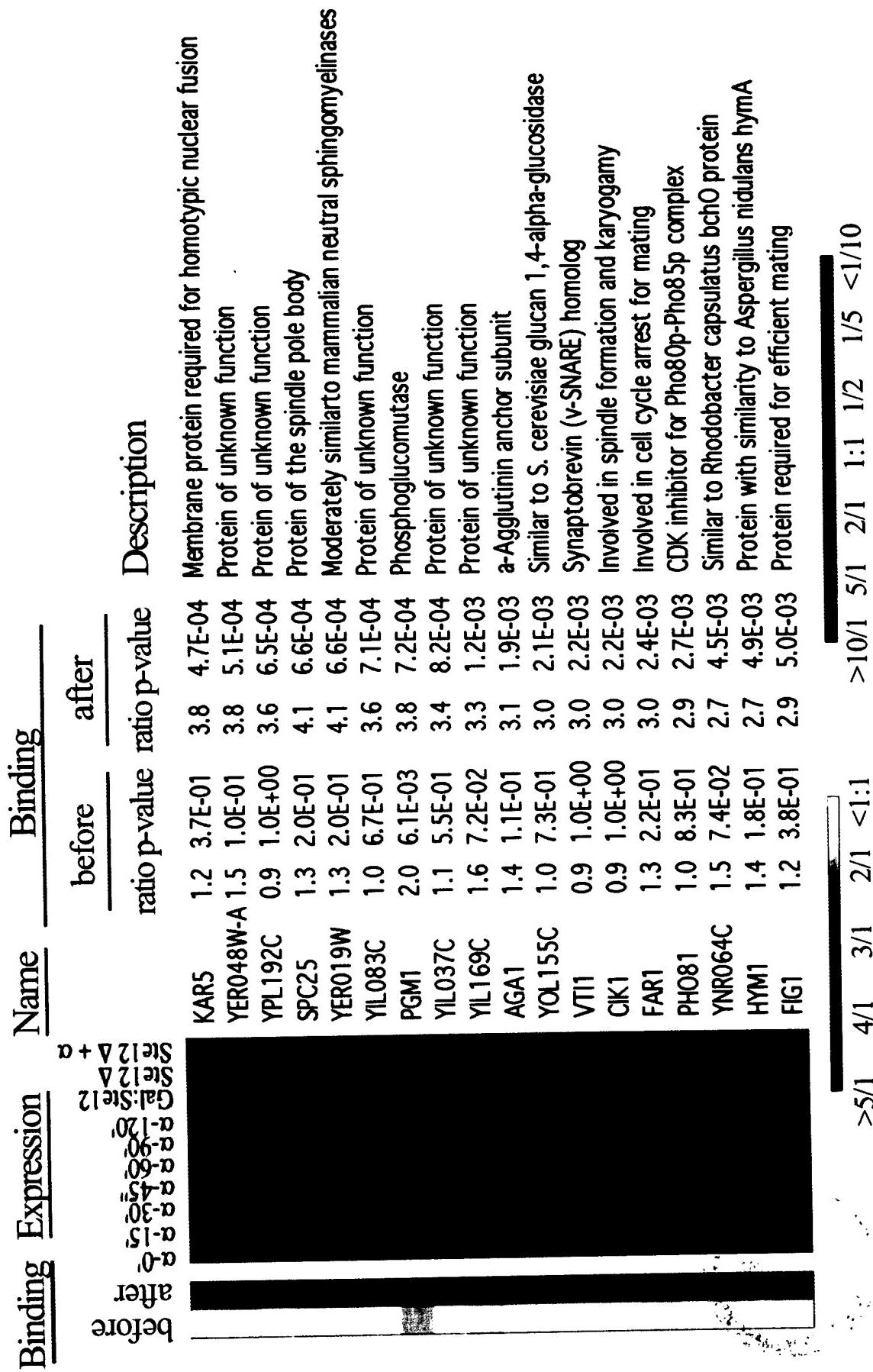


FIGURE 7B

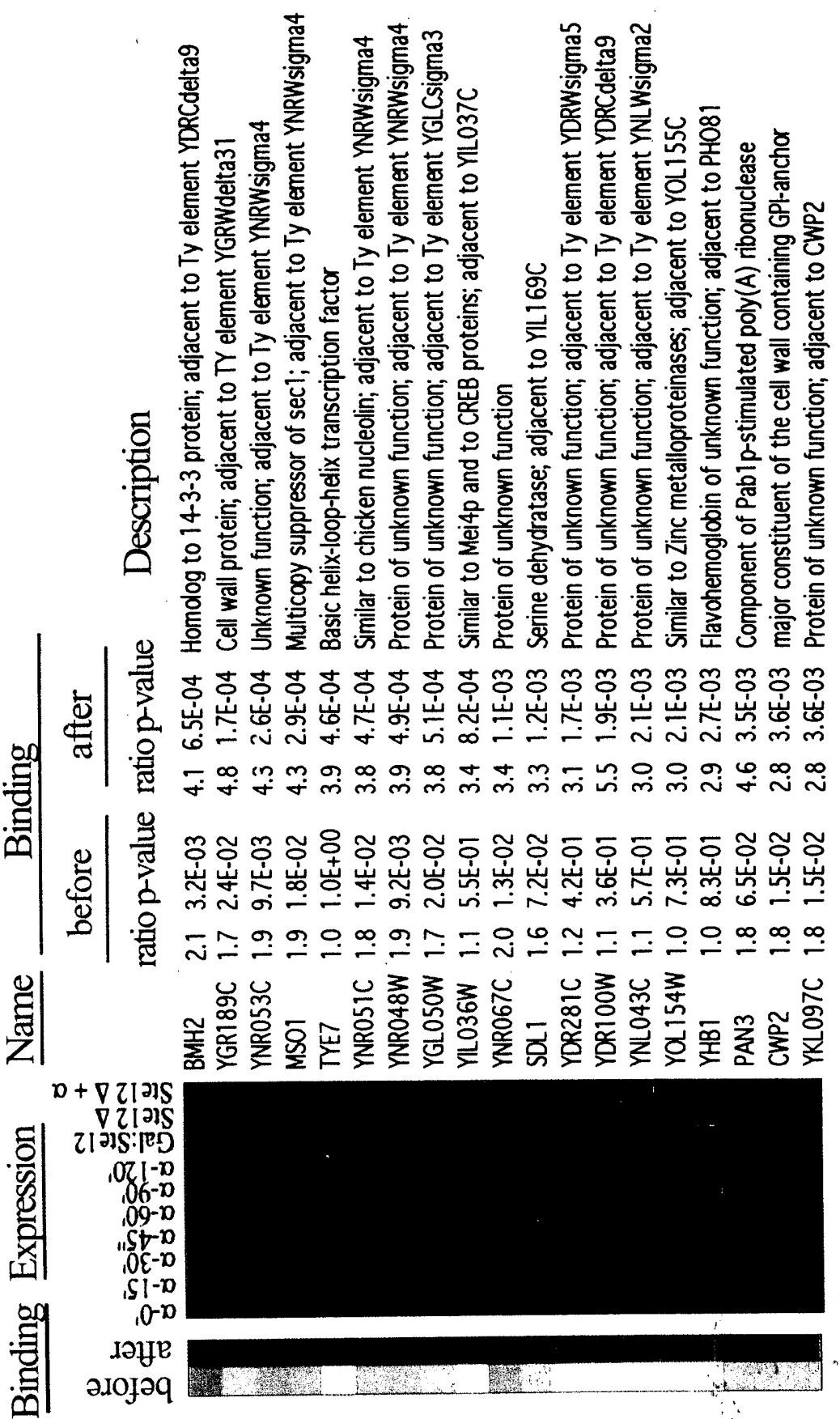
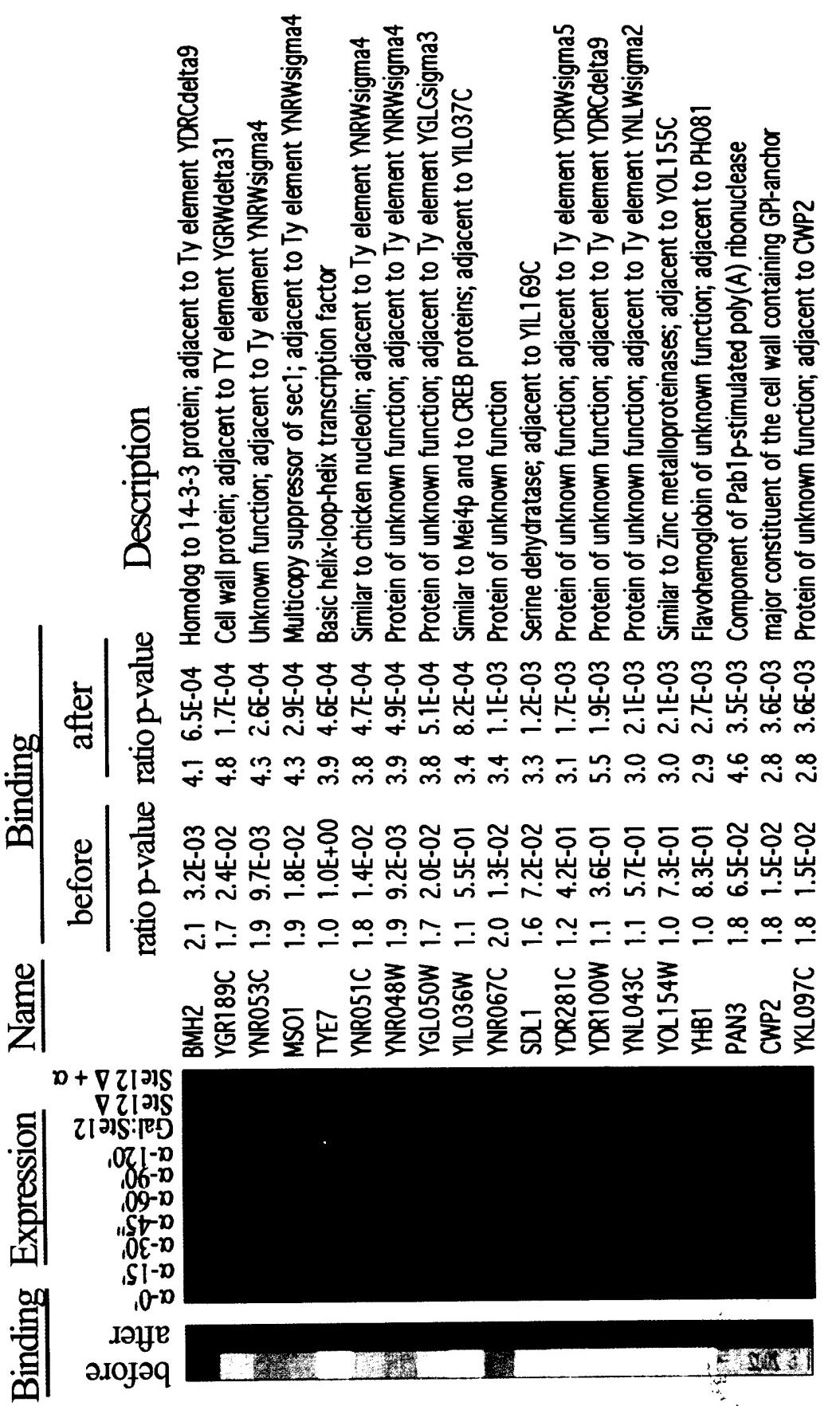


FIGURE 7C



>5/1    4/1    3/1    2/1    <1:1    >10/1    5/1    2/1    1:1    1/2    1/5    <1/10

FIGURE 7C

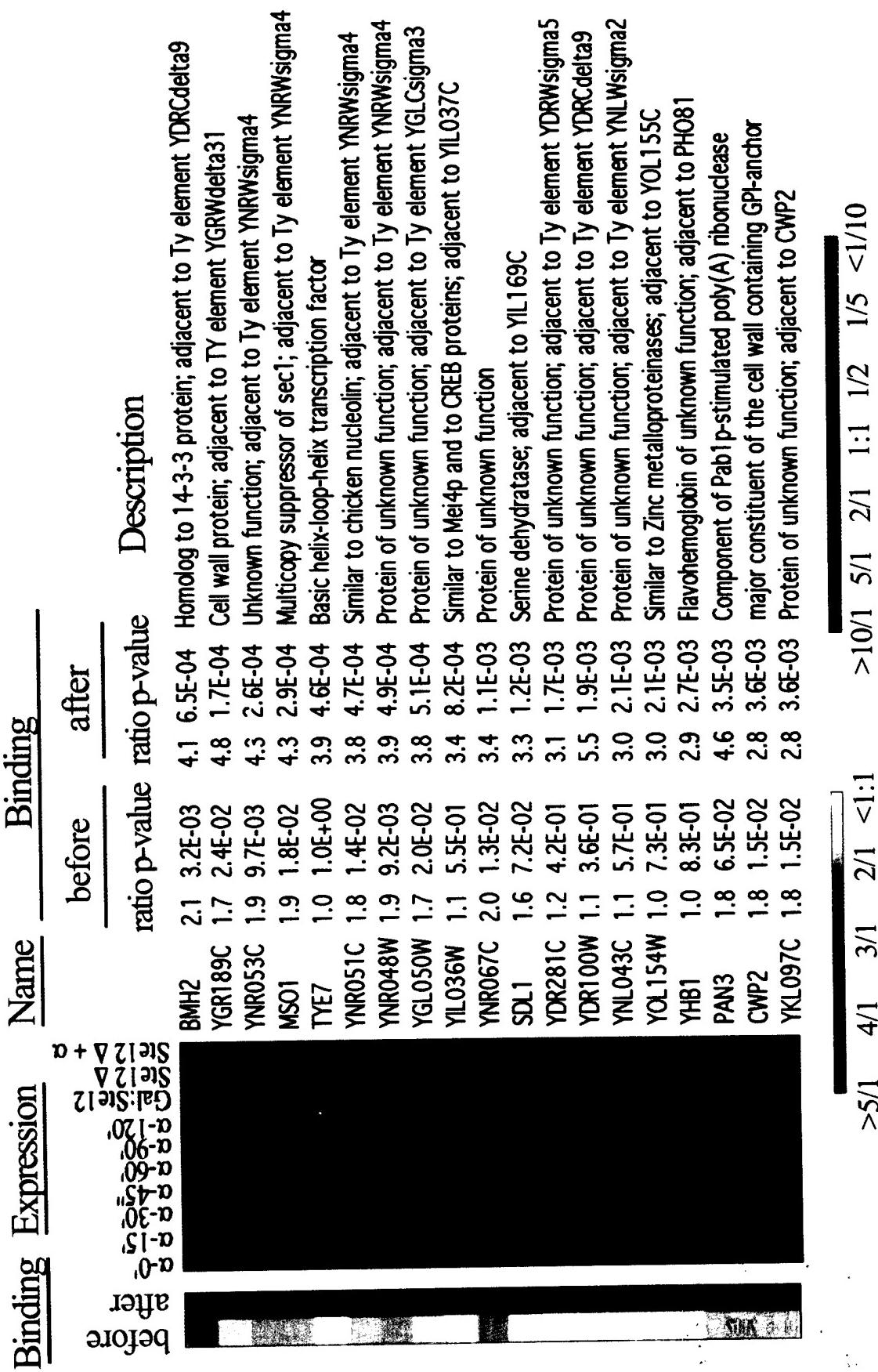


FIGURE 7C

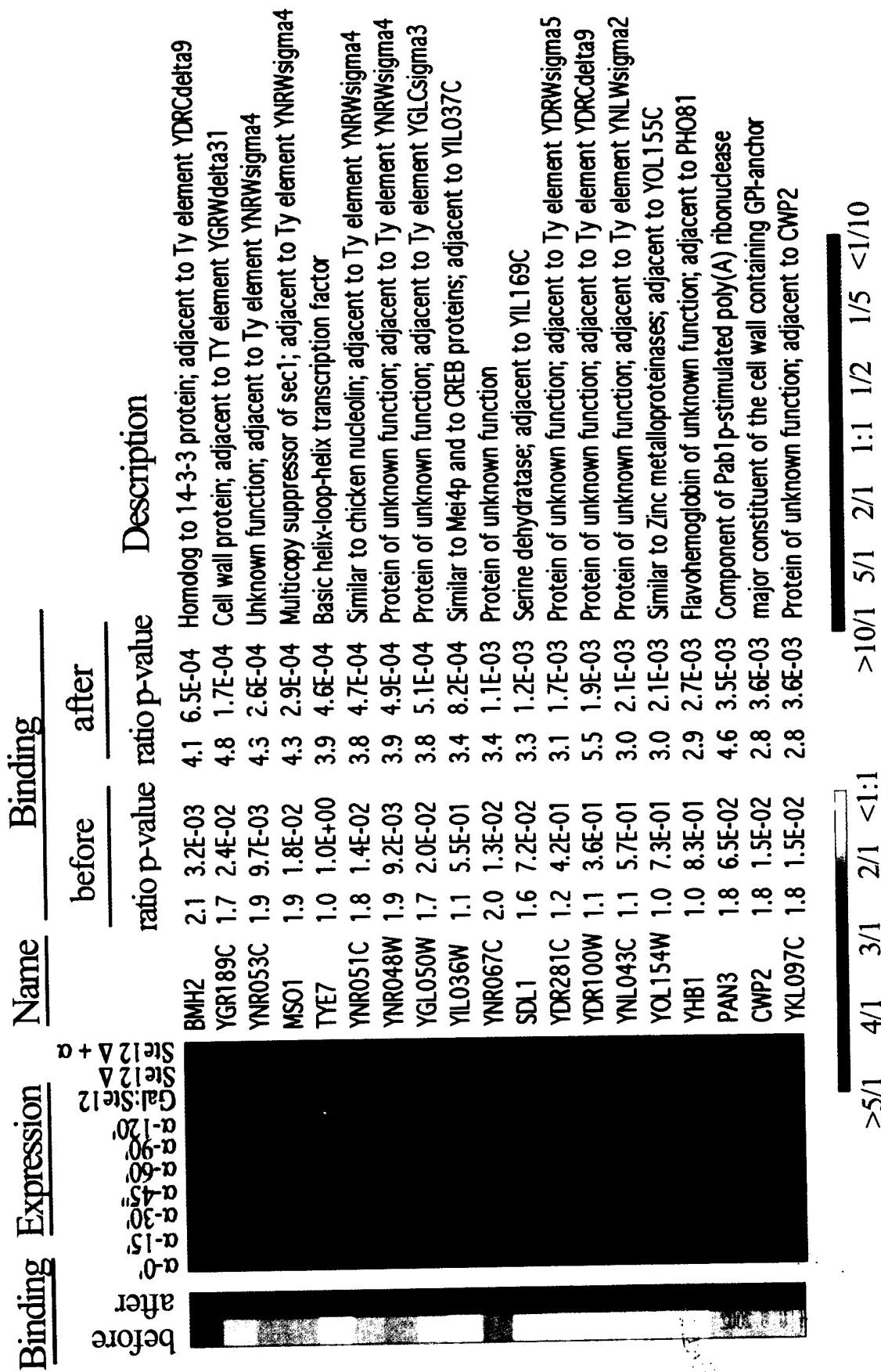


FIGURE 7C

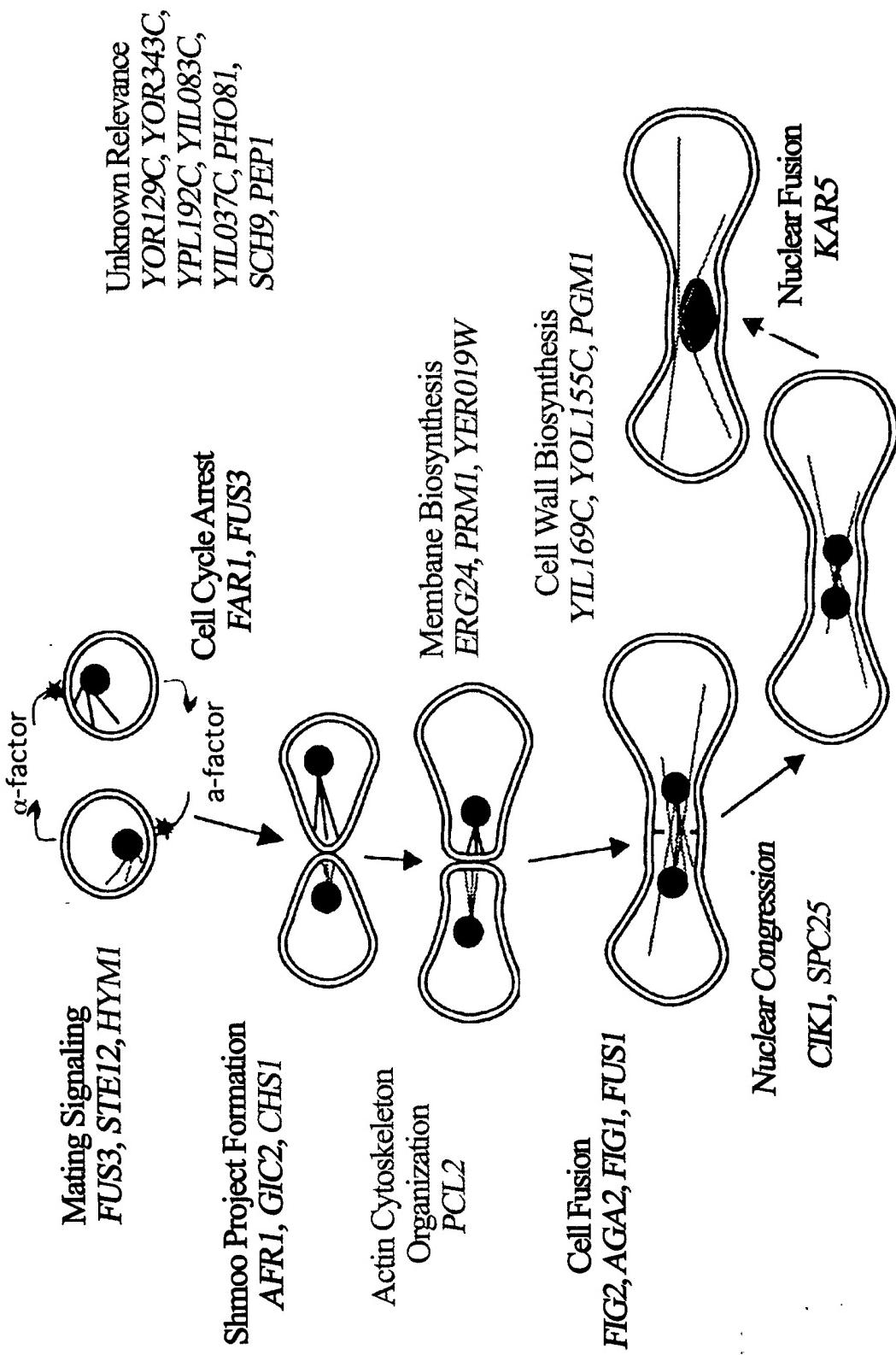


FIGURE 8

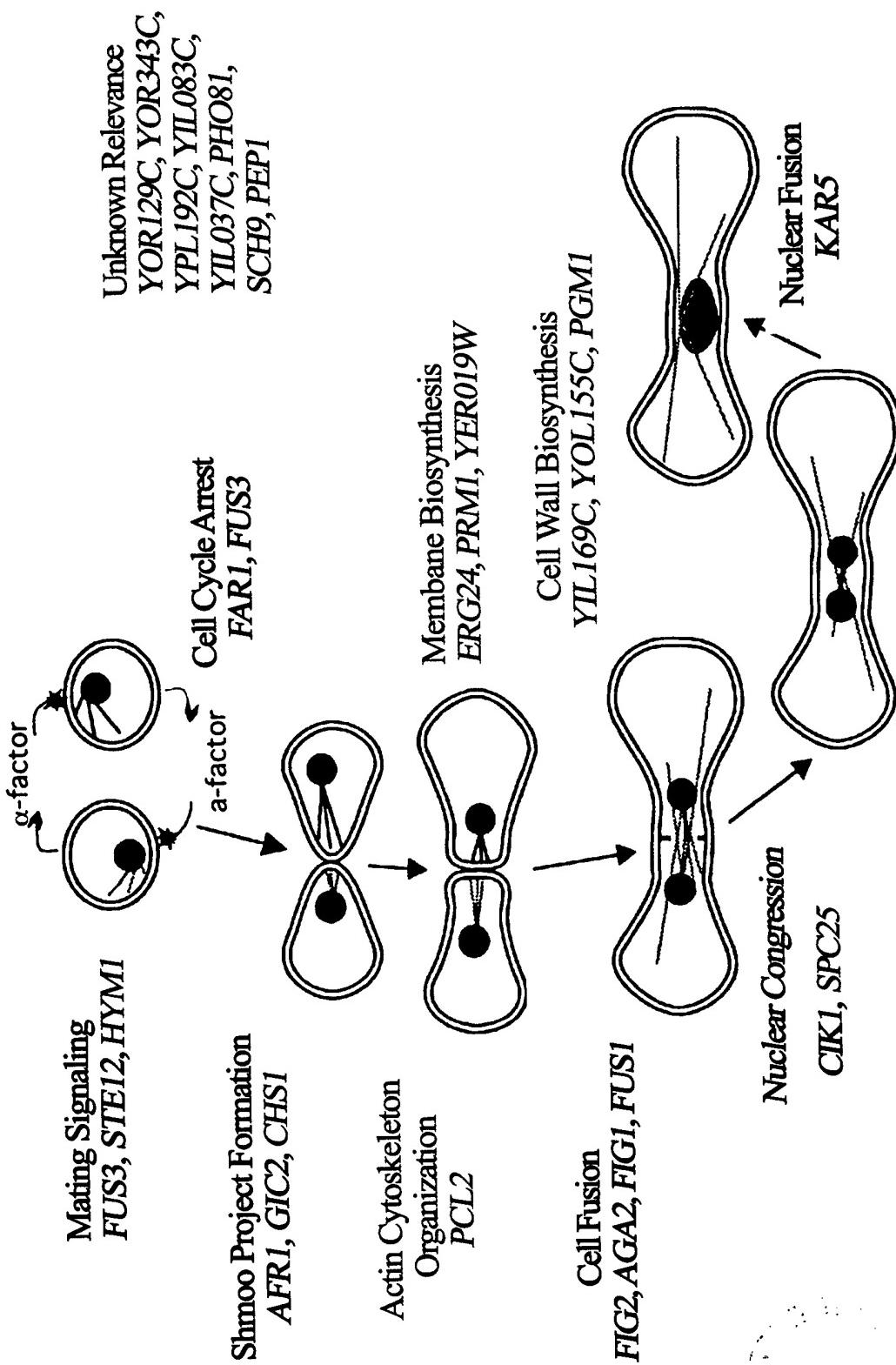


FIGURE 8

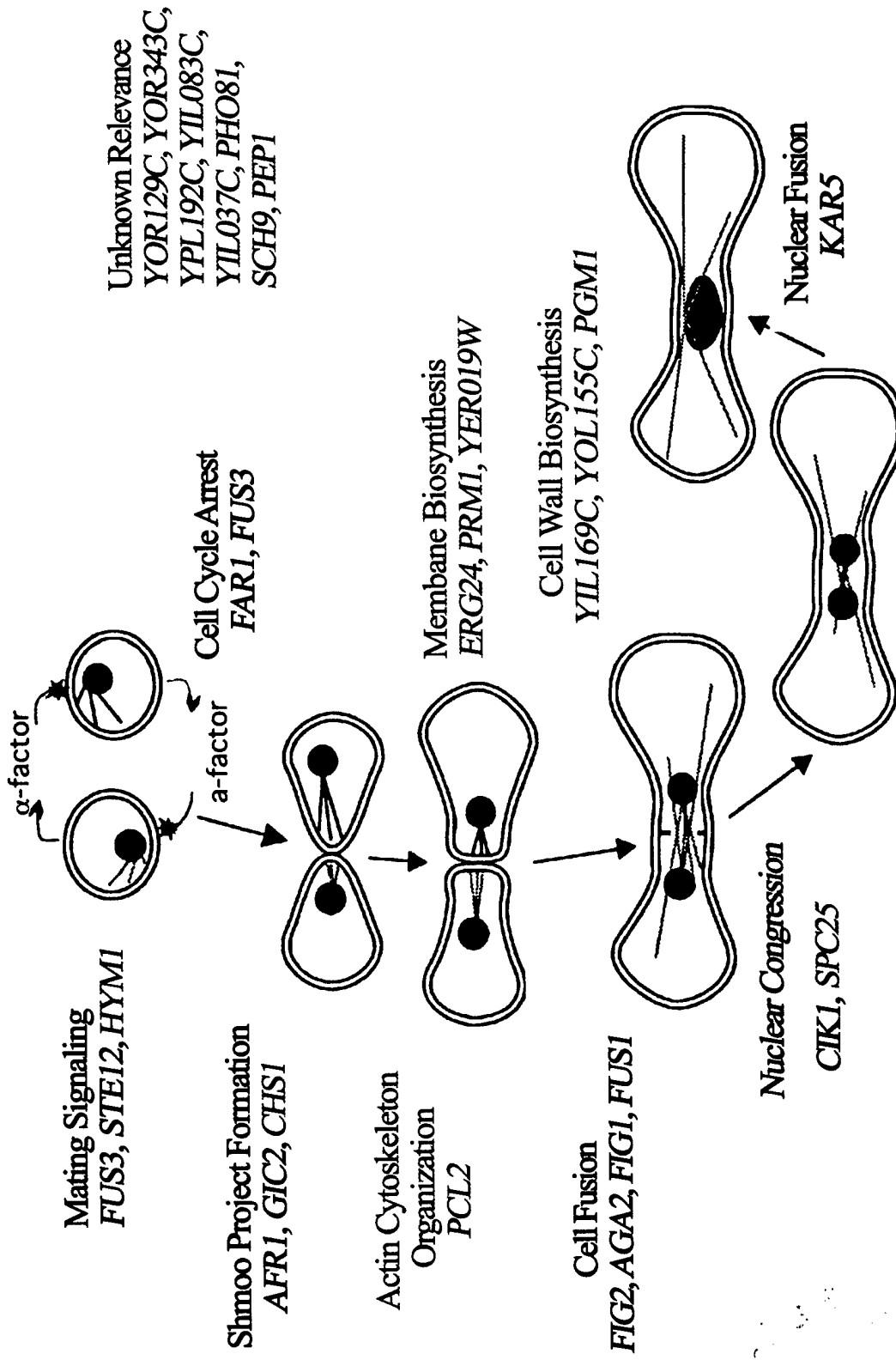


FIGURE 8

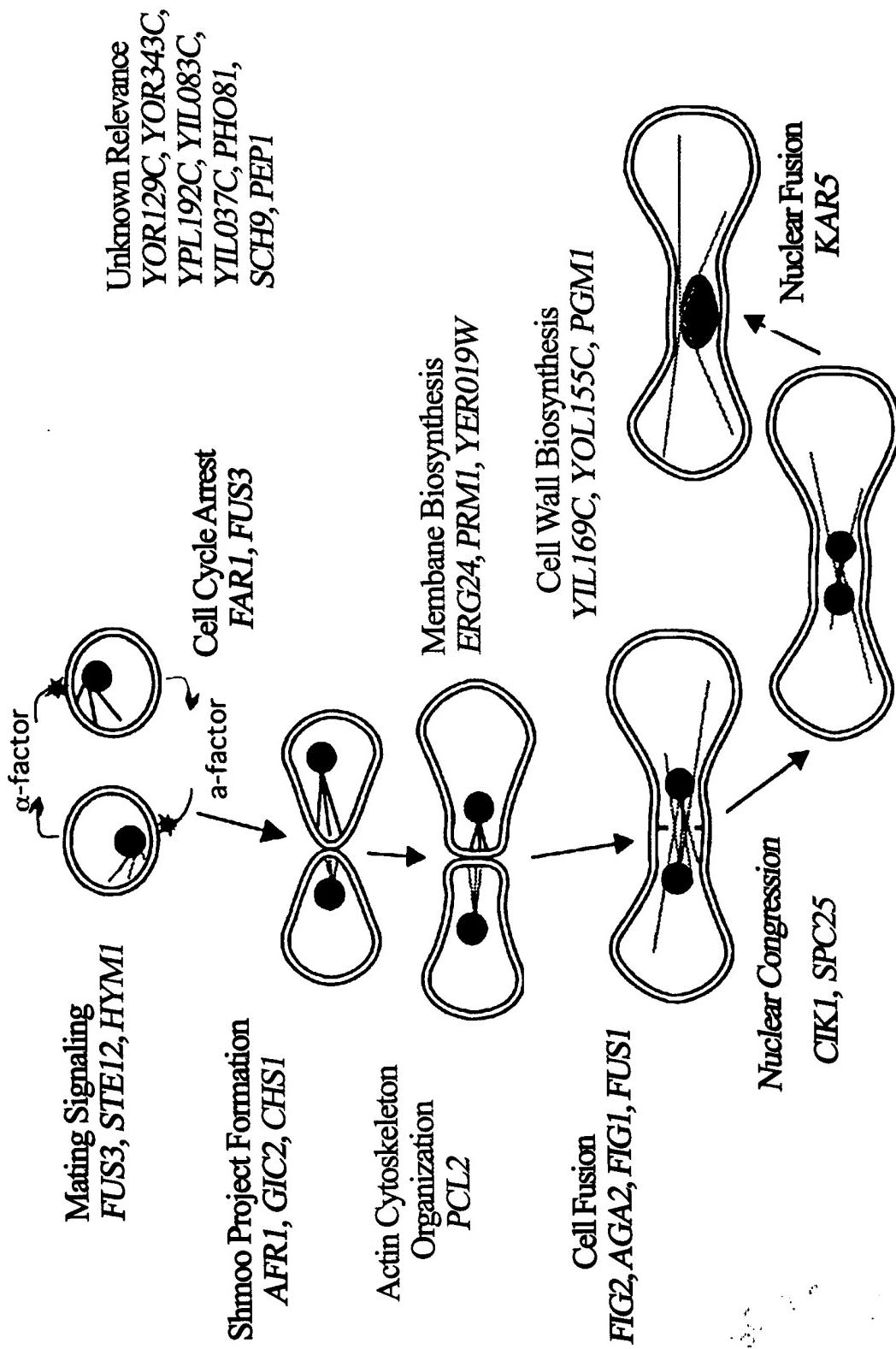


FIGURE 8

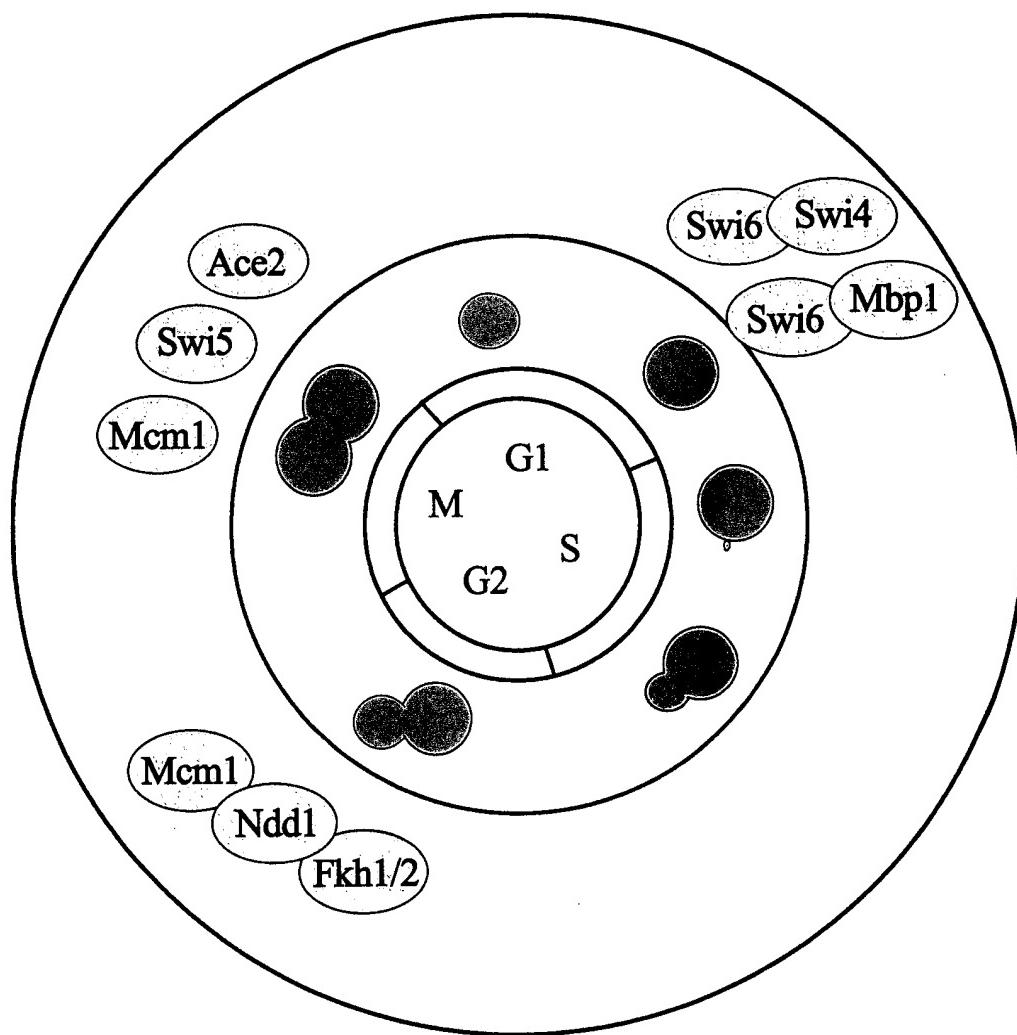


FIGURE 9A

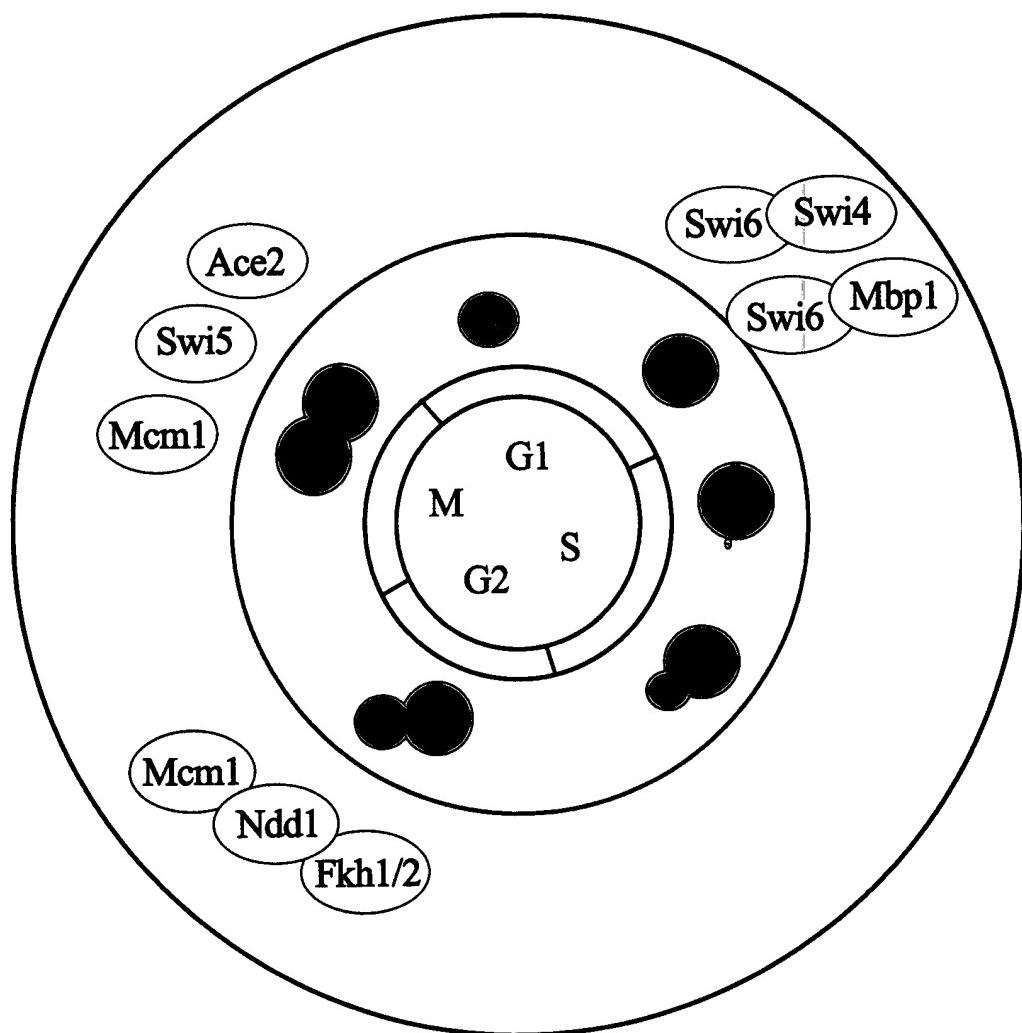


FIGURE 9A

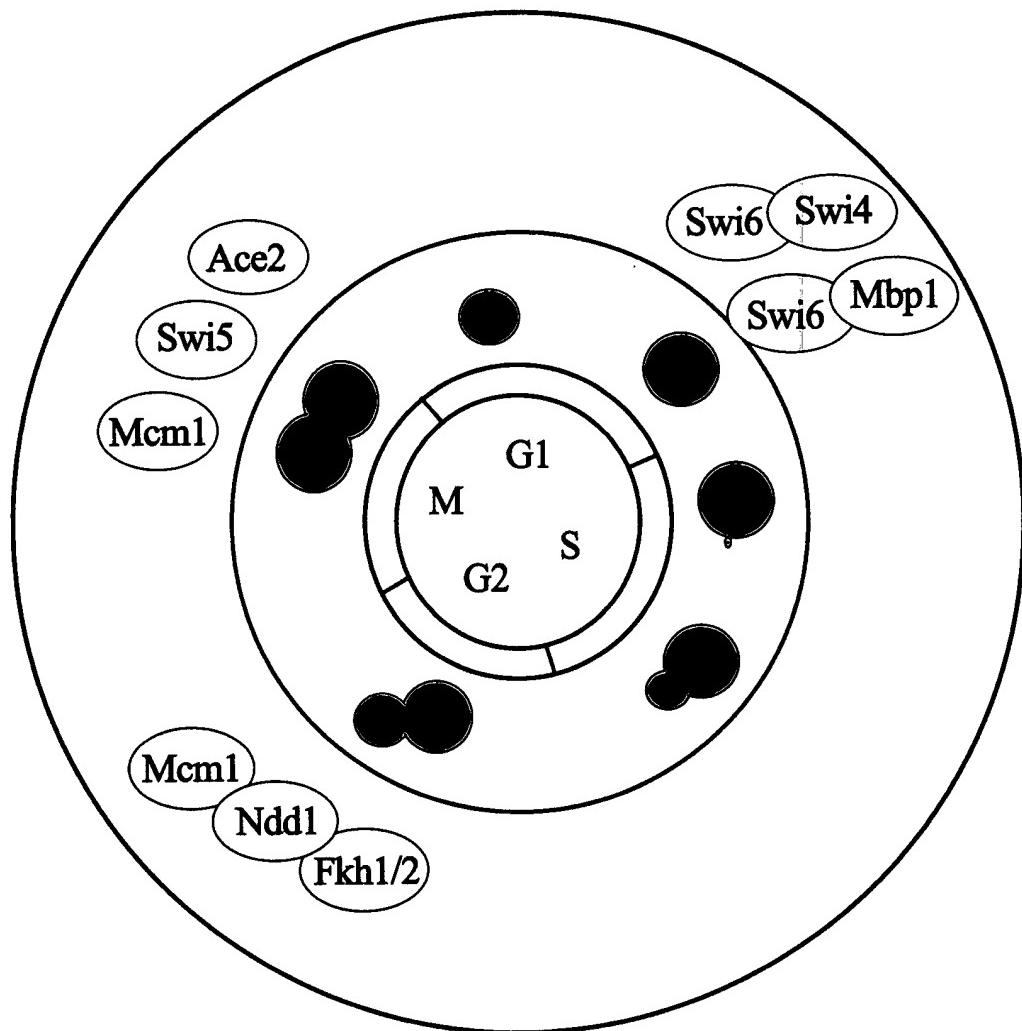


FIGURE 9A

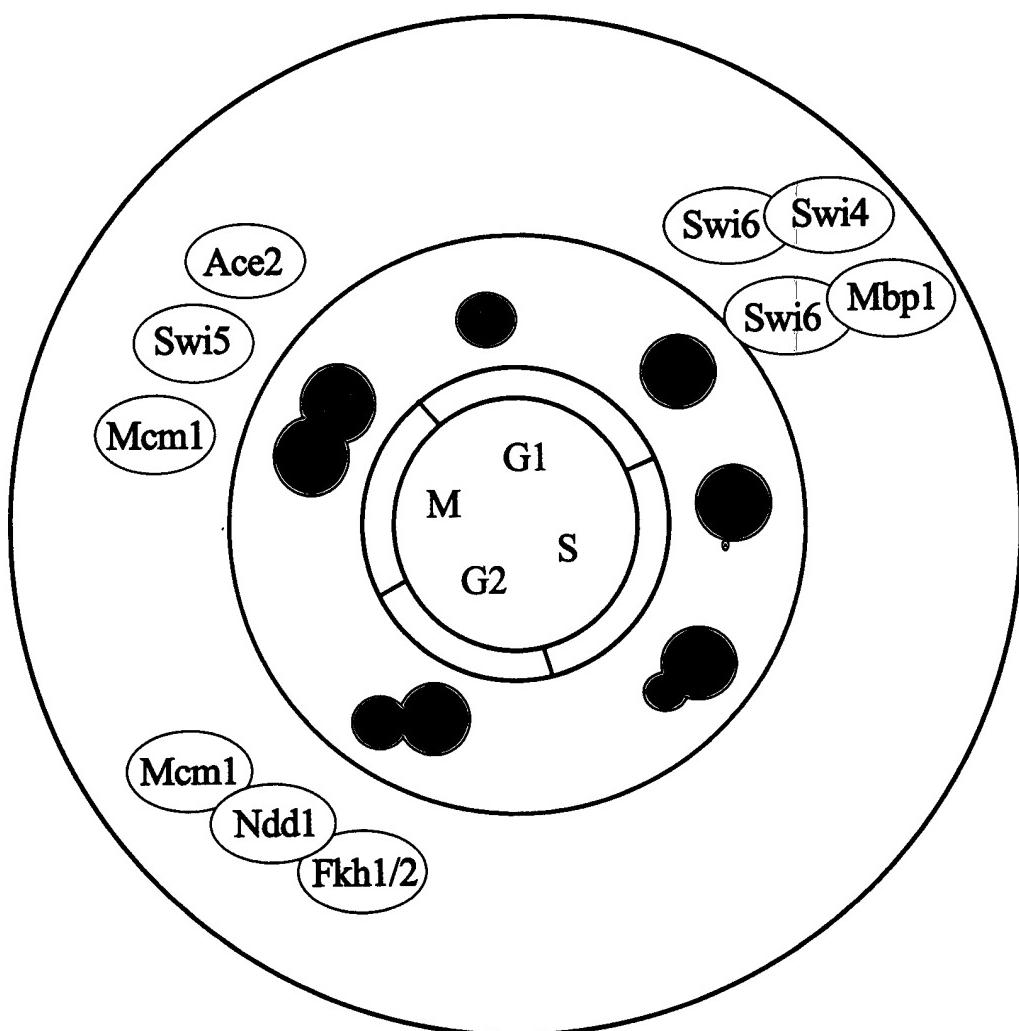


FIGURE 9A

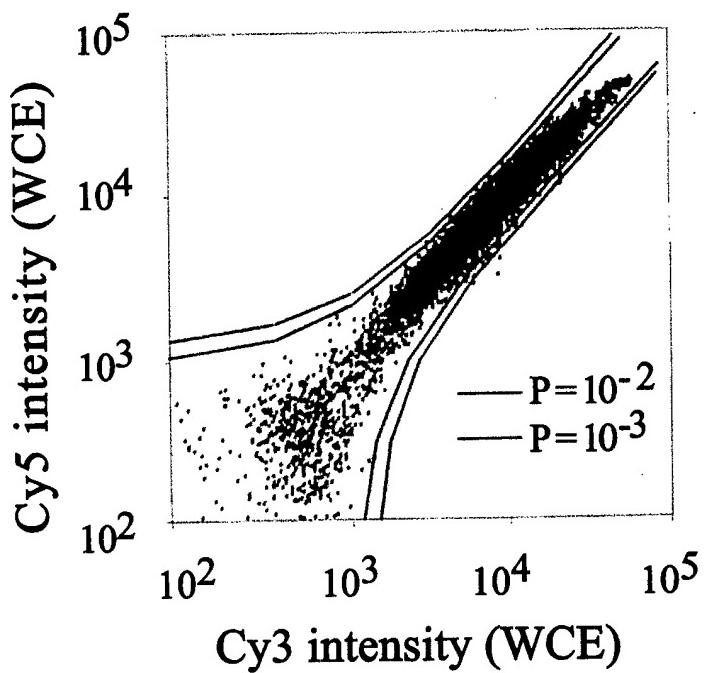


FIGURE 9B

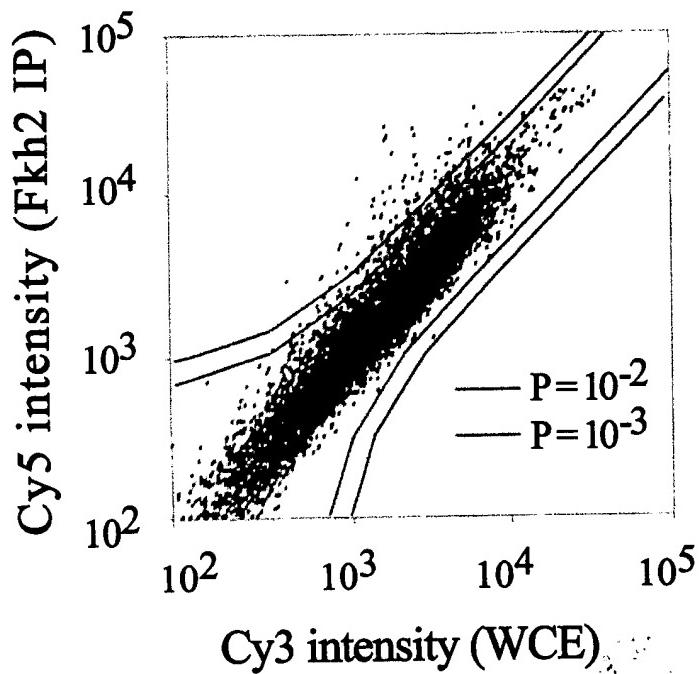


FIGURE 9C

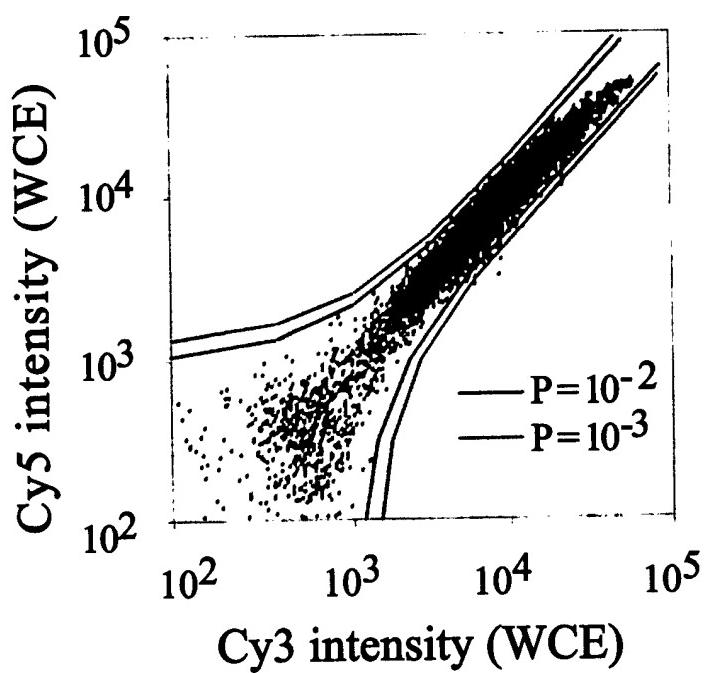


FIGURE 9B

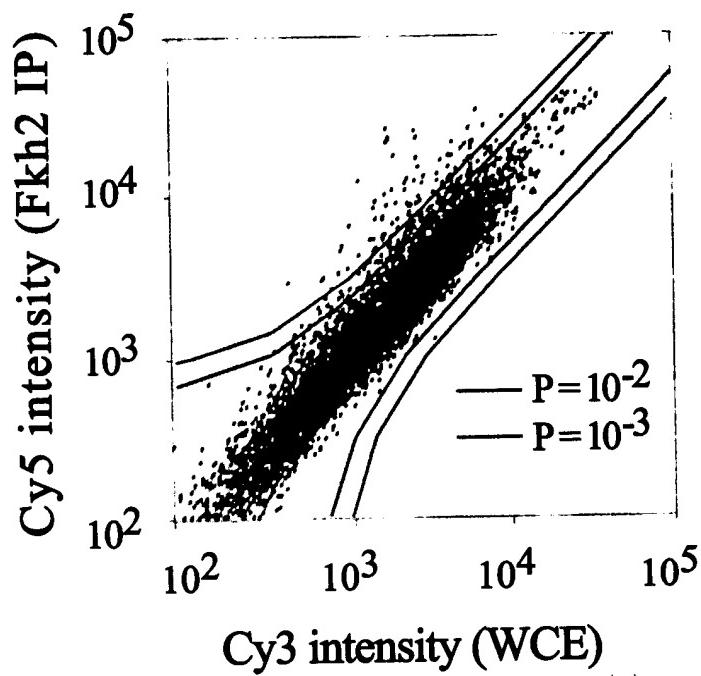


FIGURE 9C

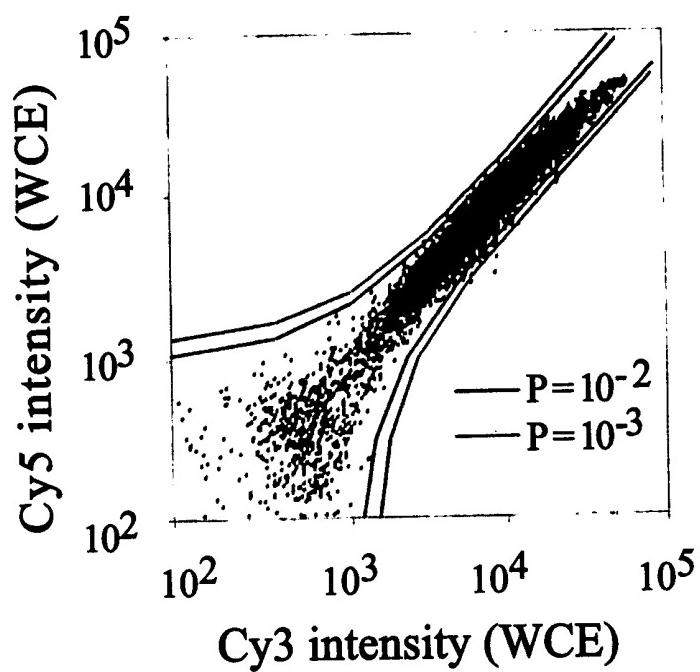


FIGURE 9B

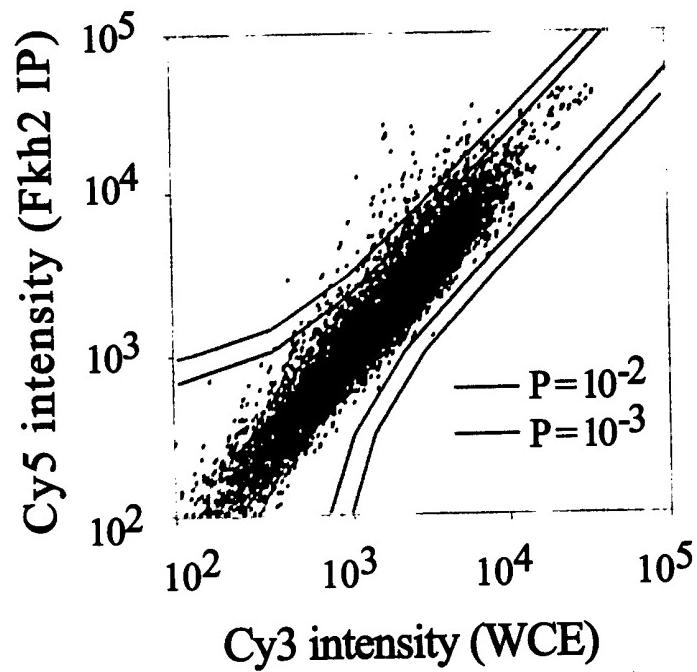


FIGURE 9C

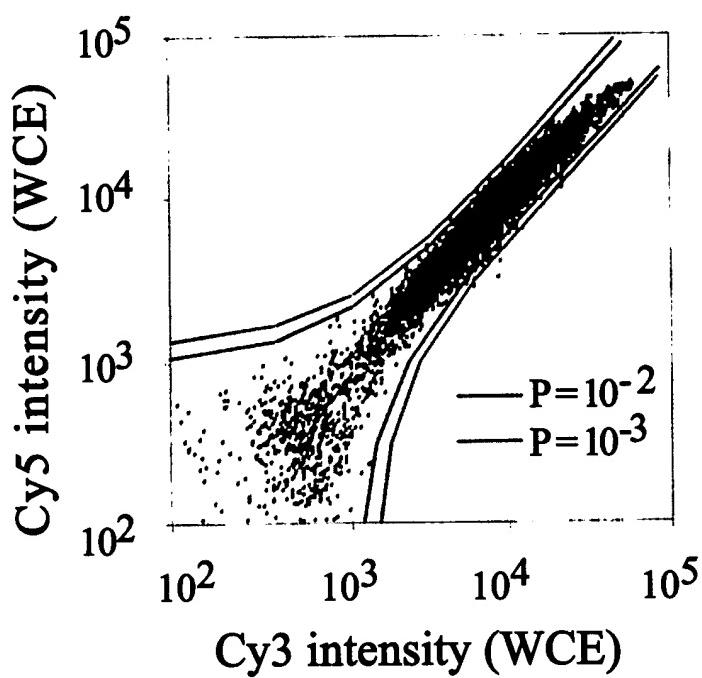


FIGURE 9B

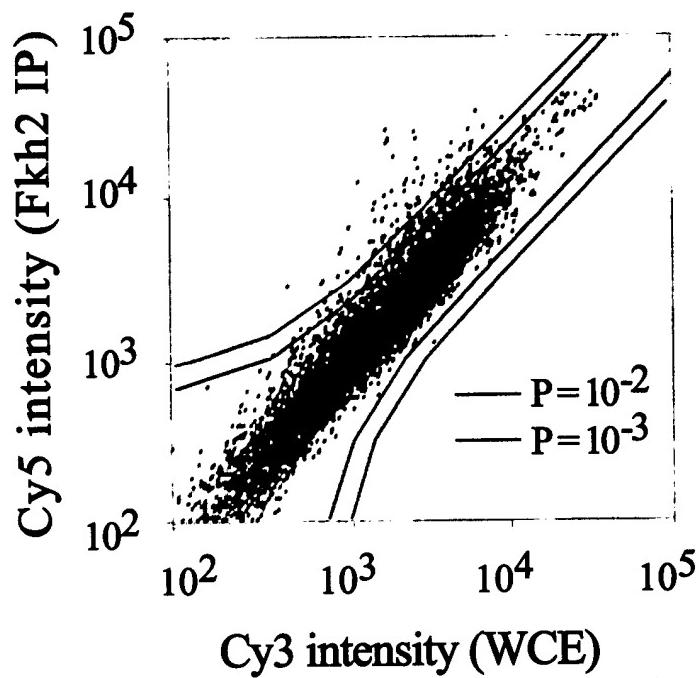


FIGURE 9C

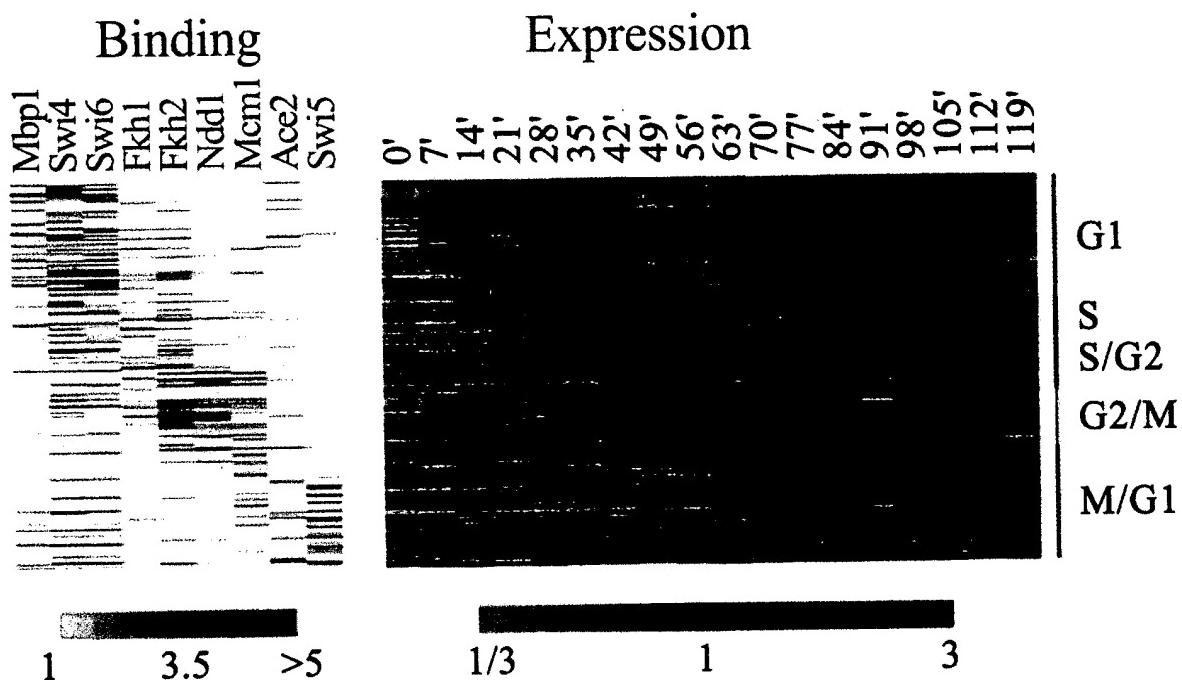


FIGURE 10A

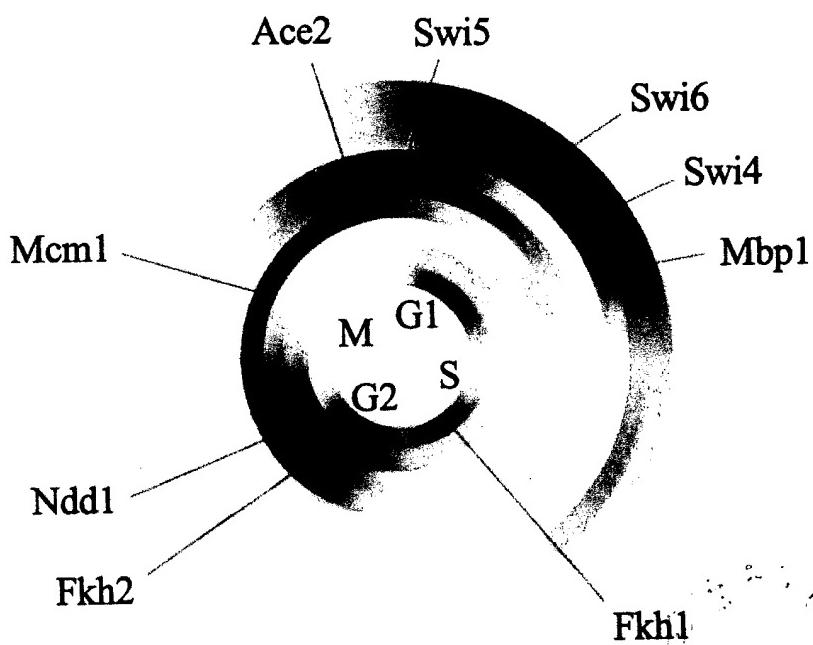


FIGURE 10B

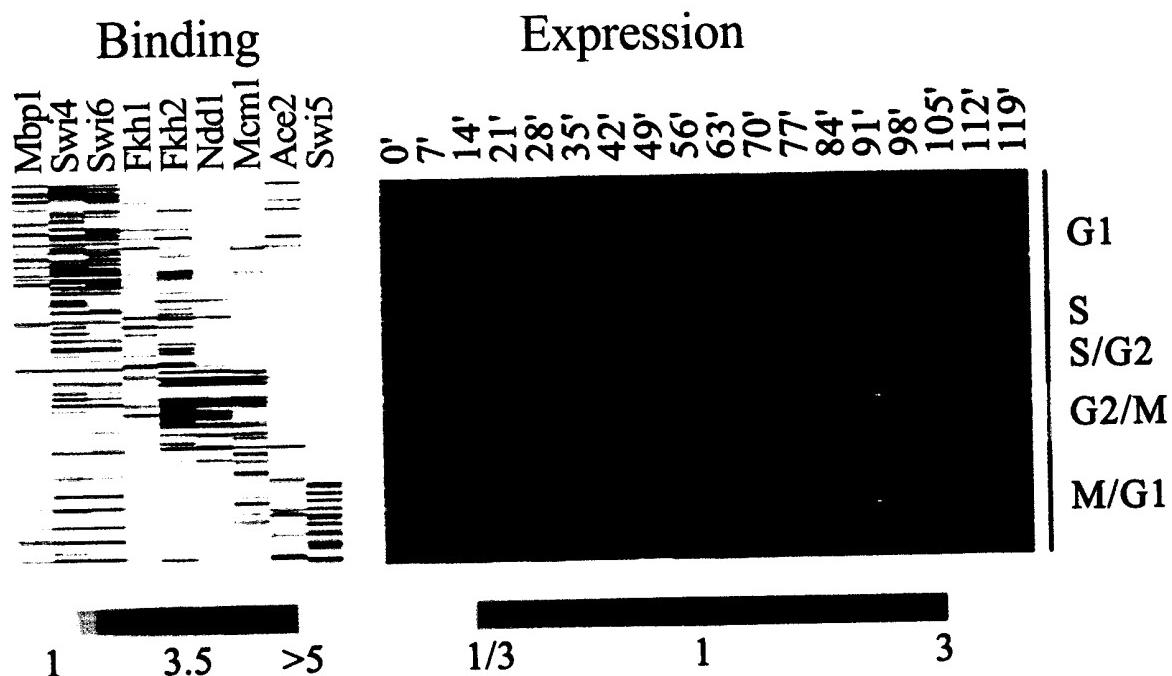


FIGURE 10A

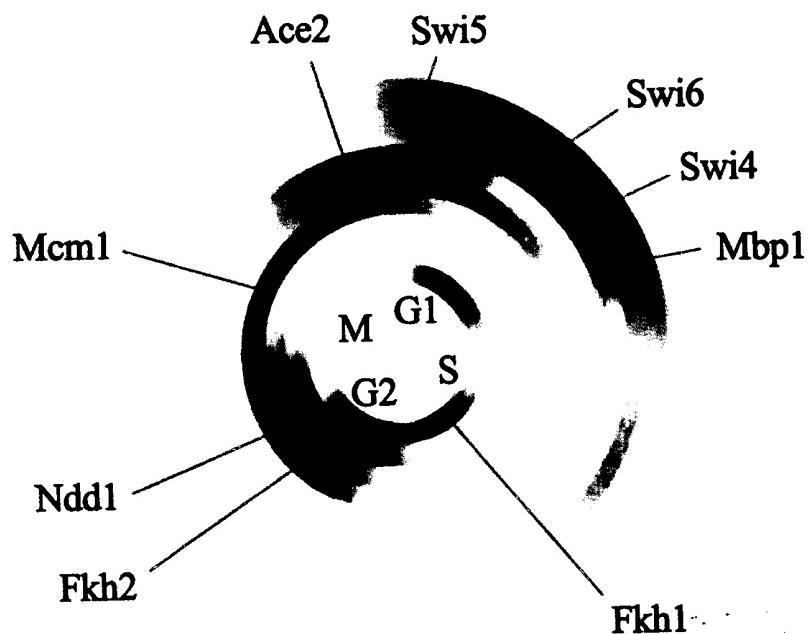


FIGURE 10B

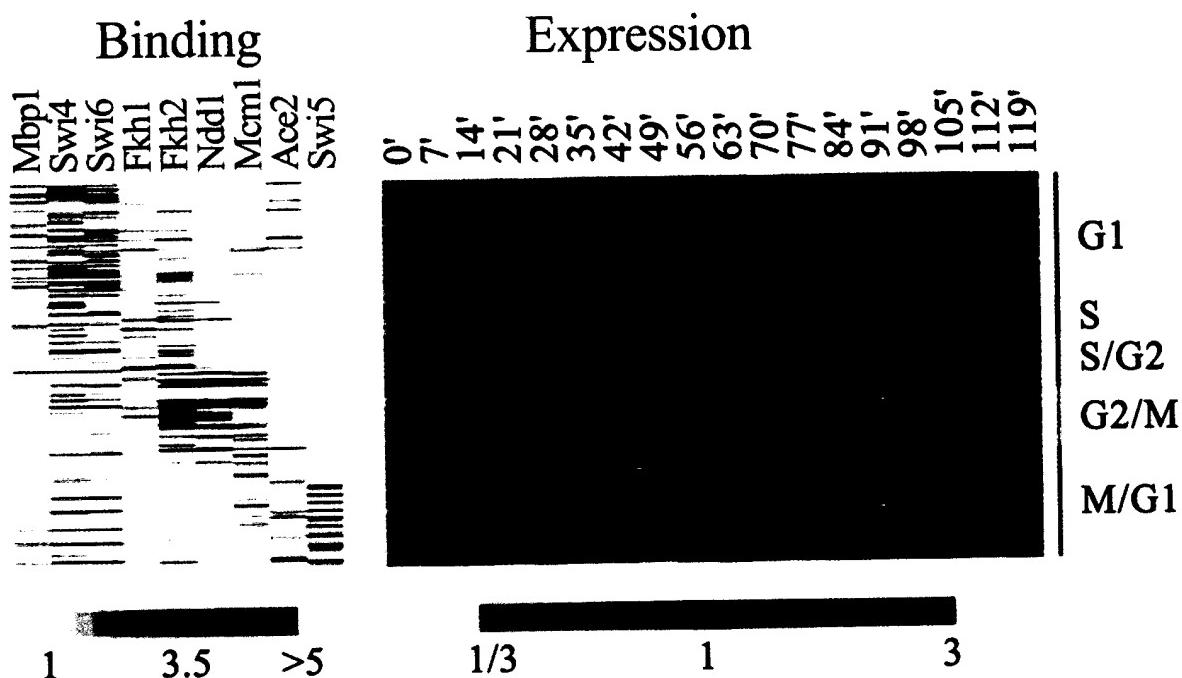


FIGURE 10A

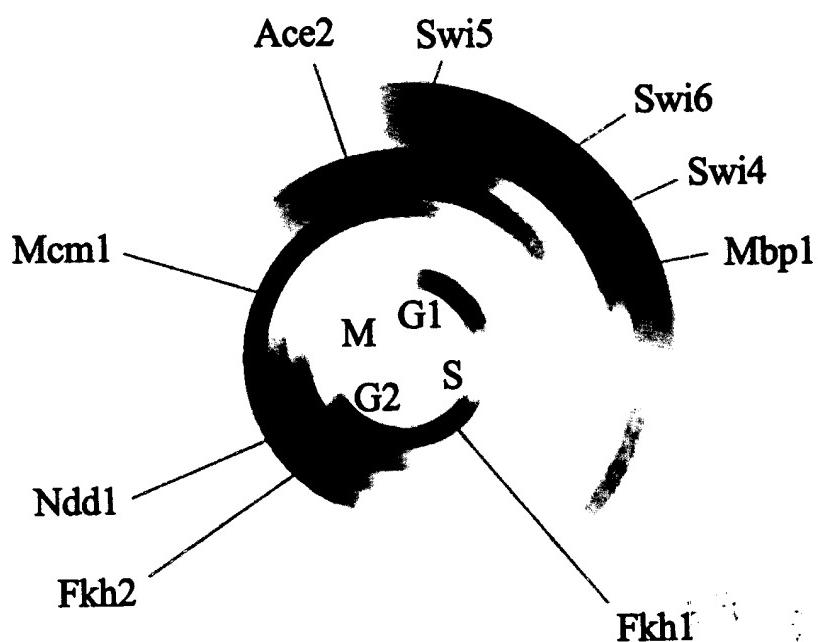


FIGURE 10B

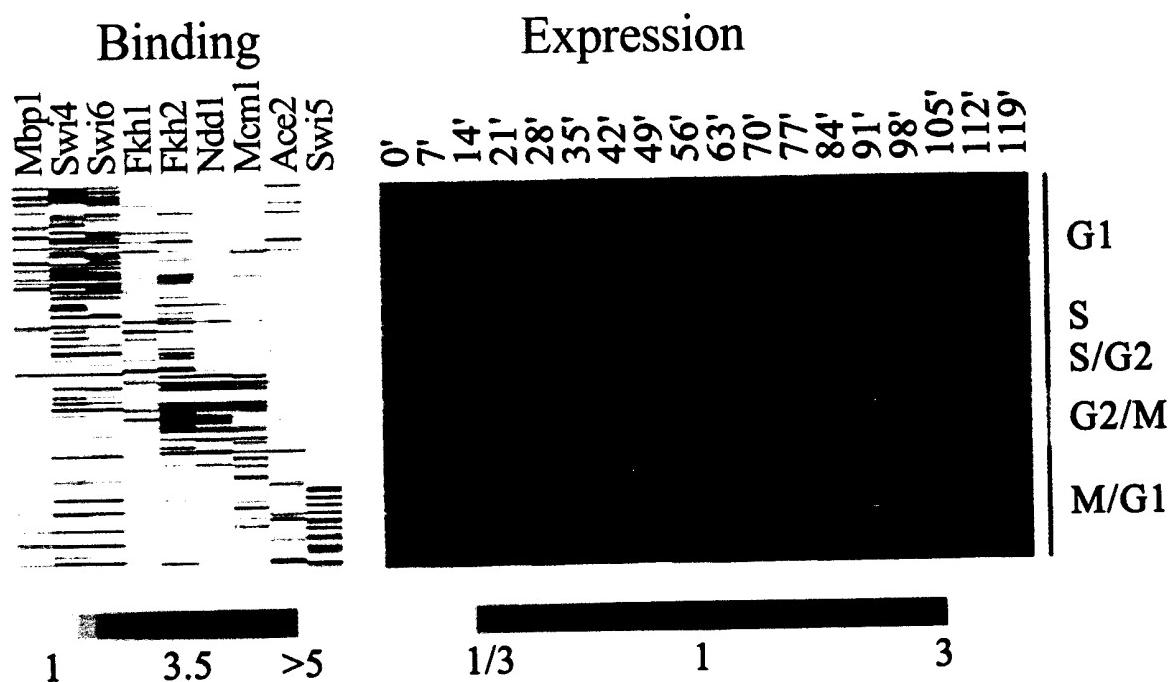


FIGURE 10A

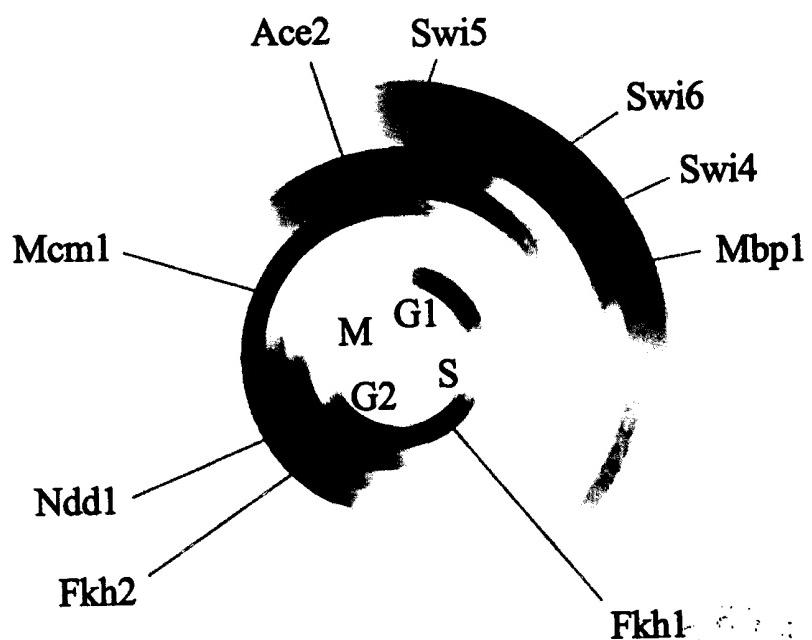


FIGURE 10B

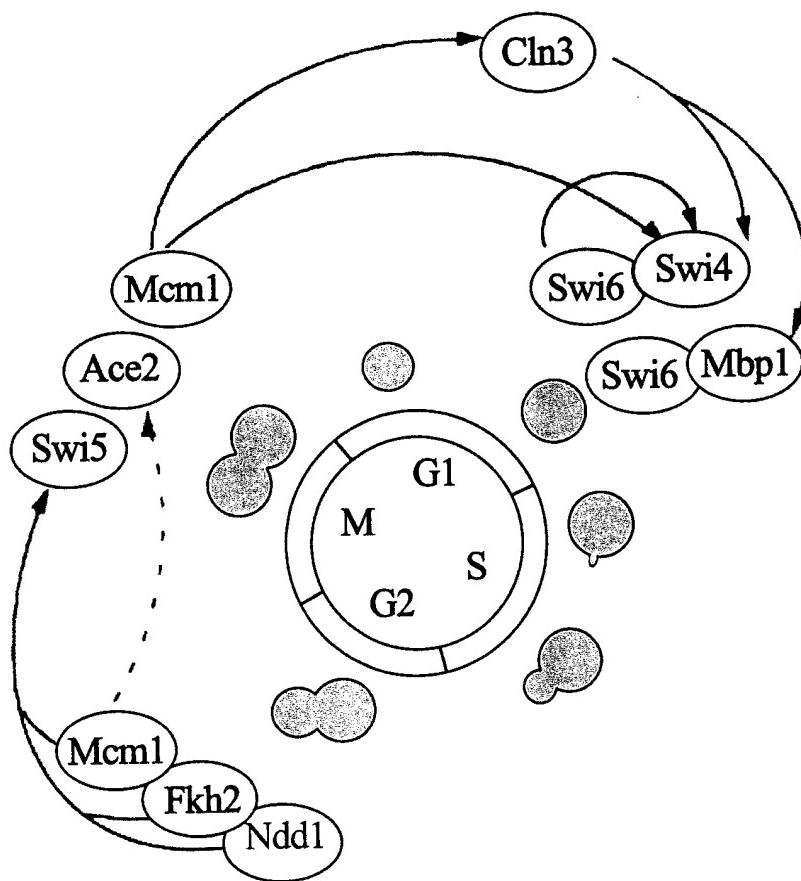


FIGURE 11A

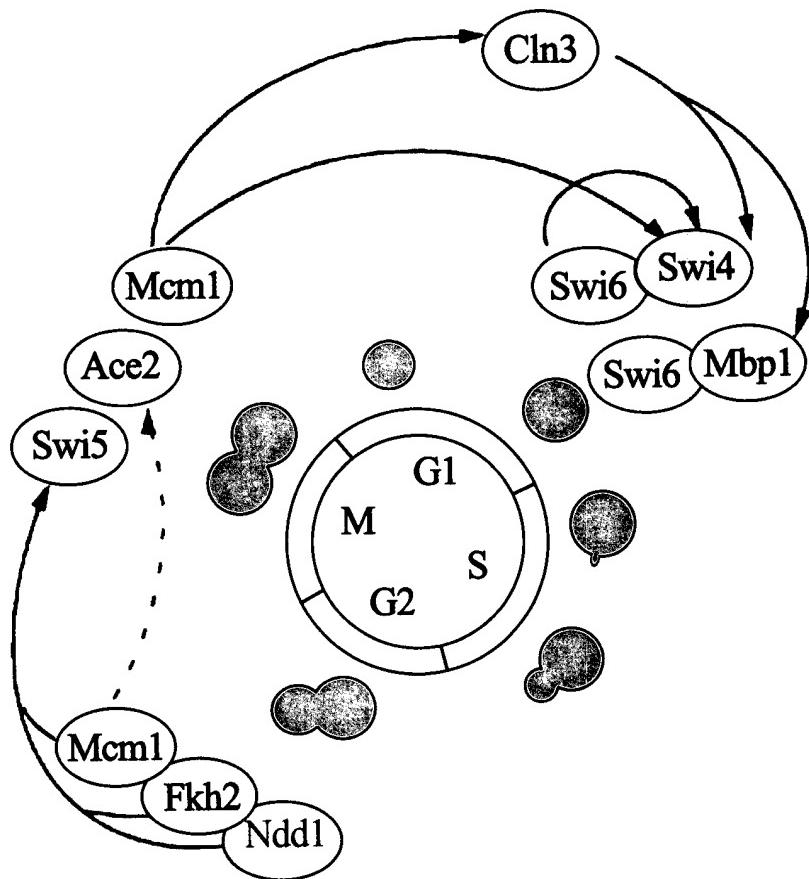


FIGURE 11A

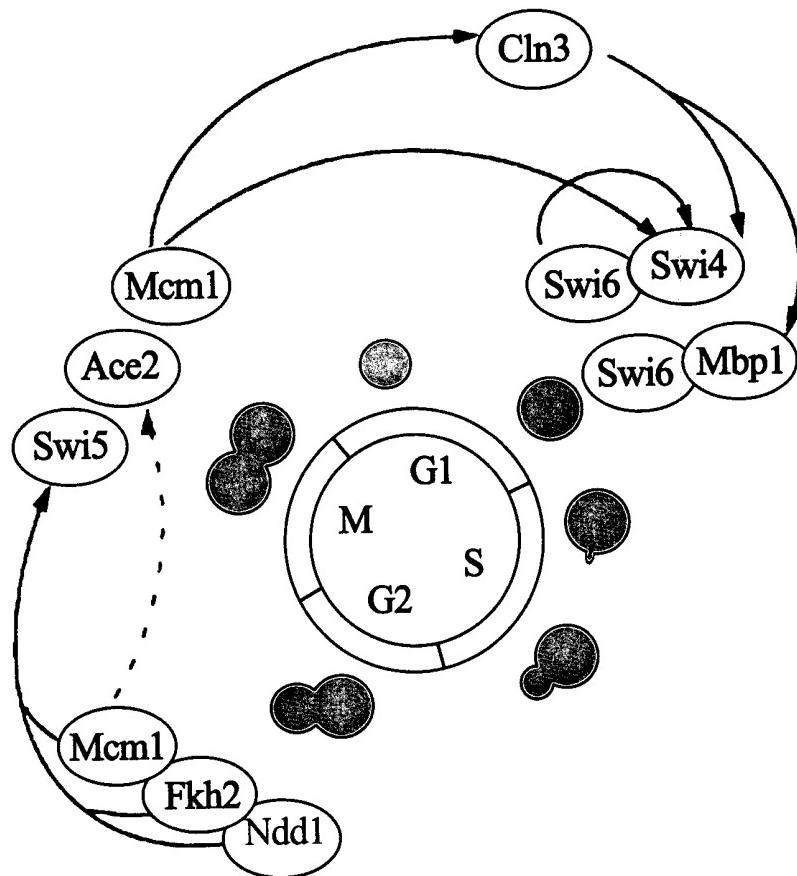


FIGURE 11A

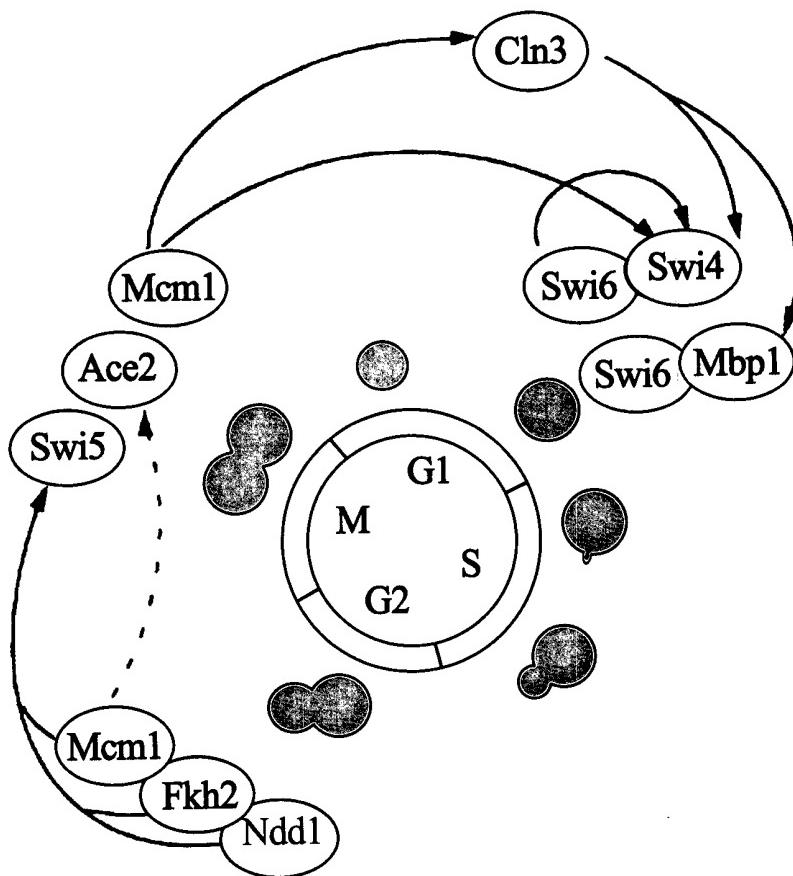


FIGURE 11A

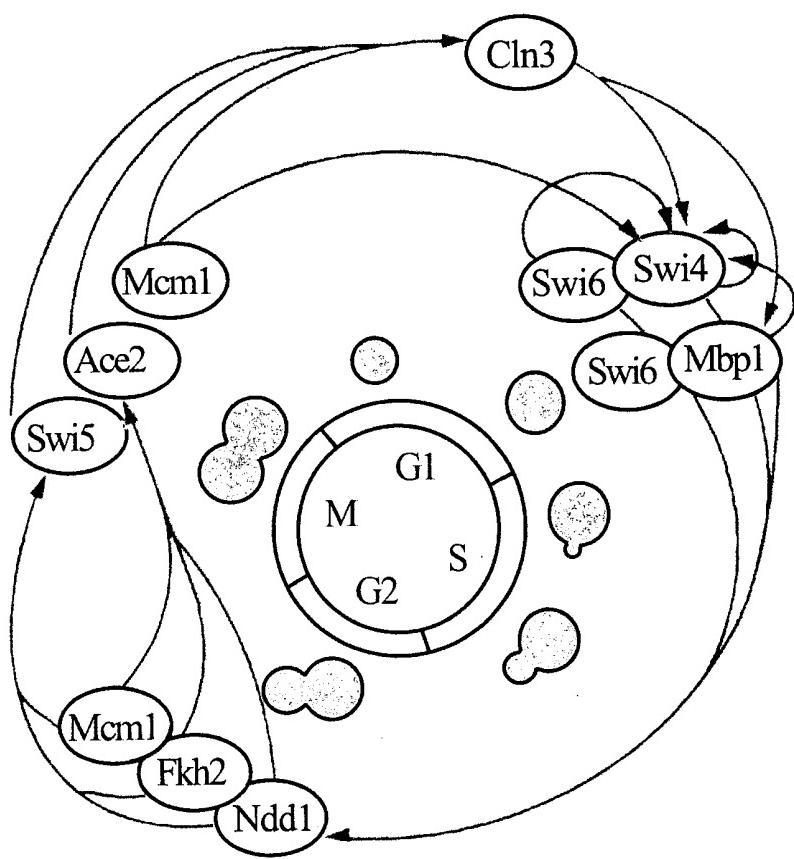


FIGURE 11B

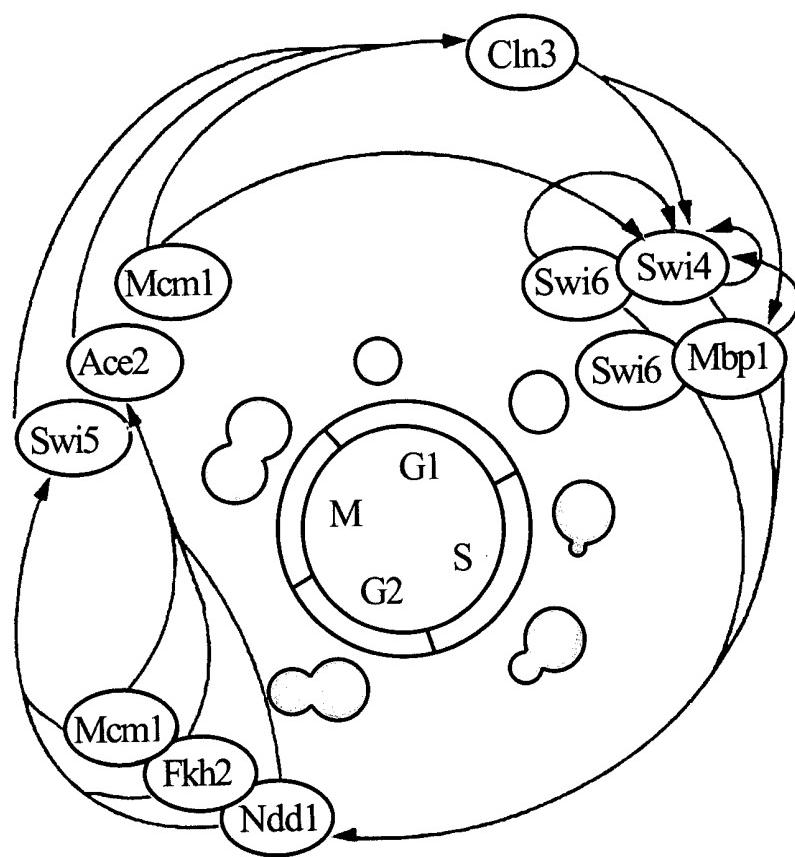


FIGURE 11B

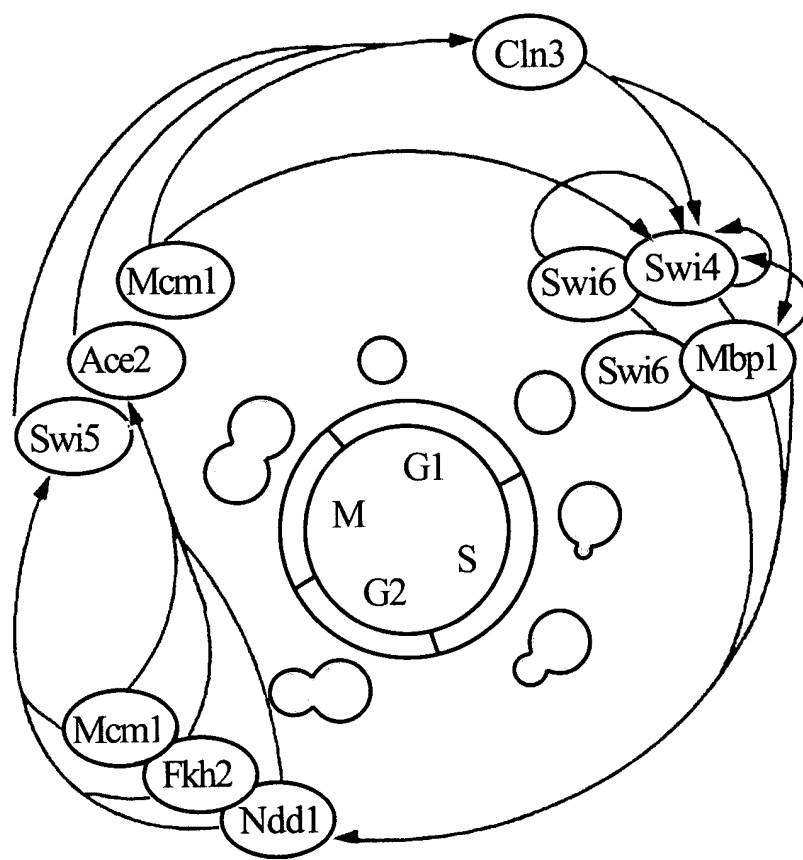


FIGURE 11B

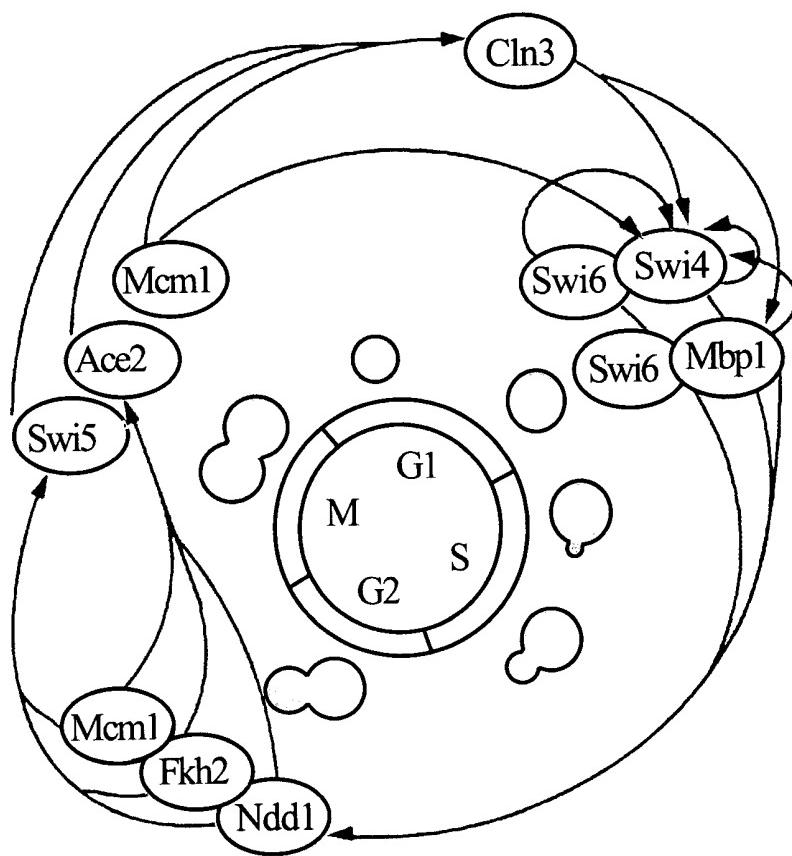


FIGURE 11B

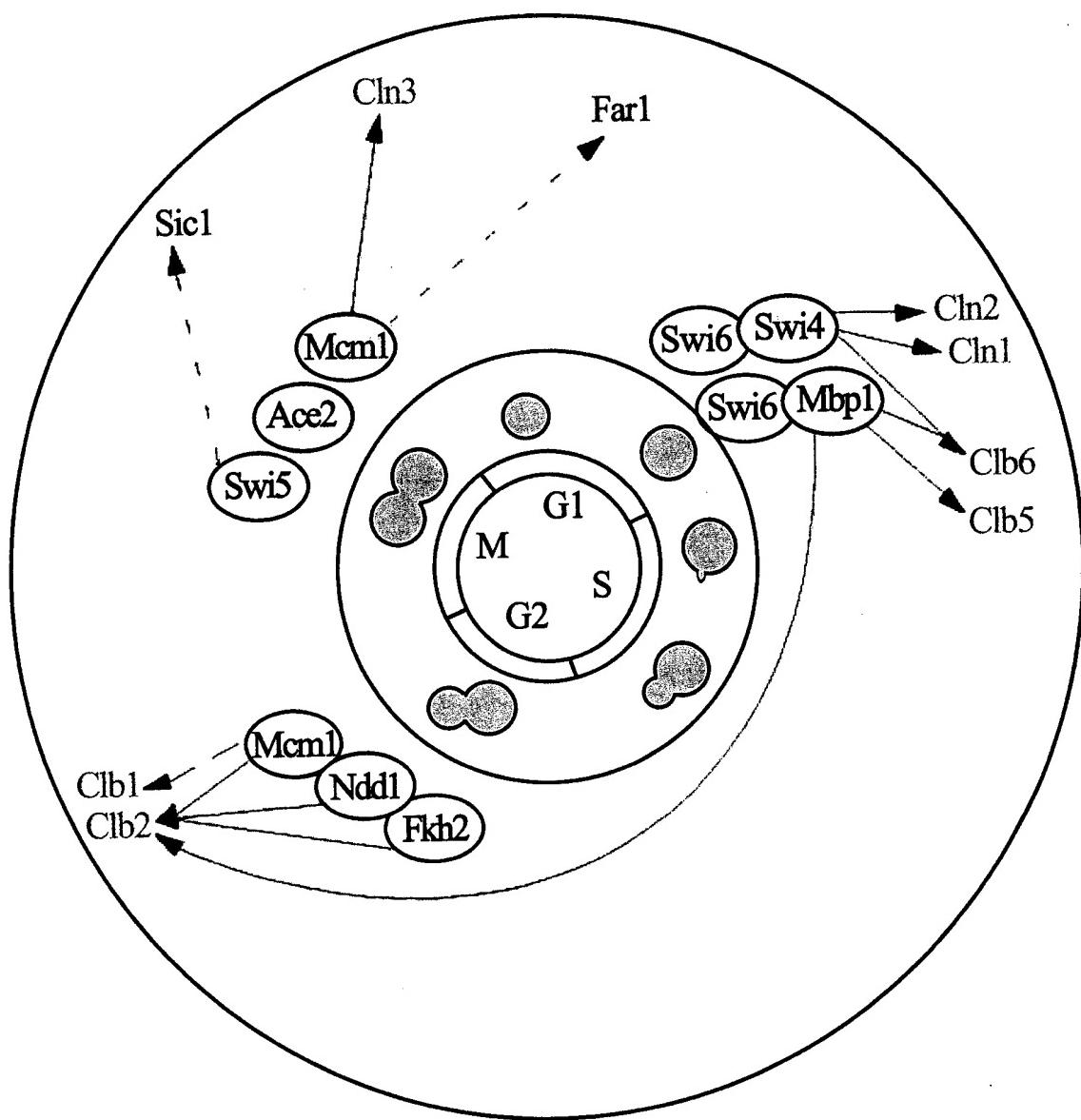


FIGURE 12A

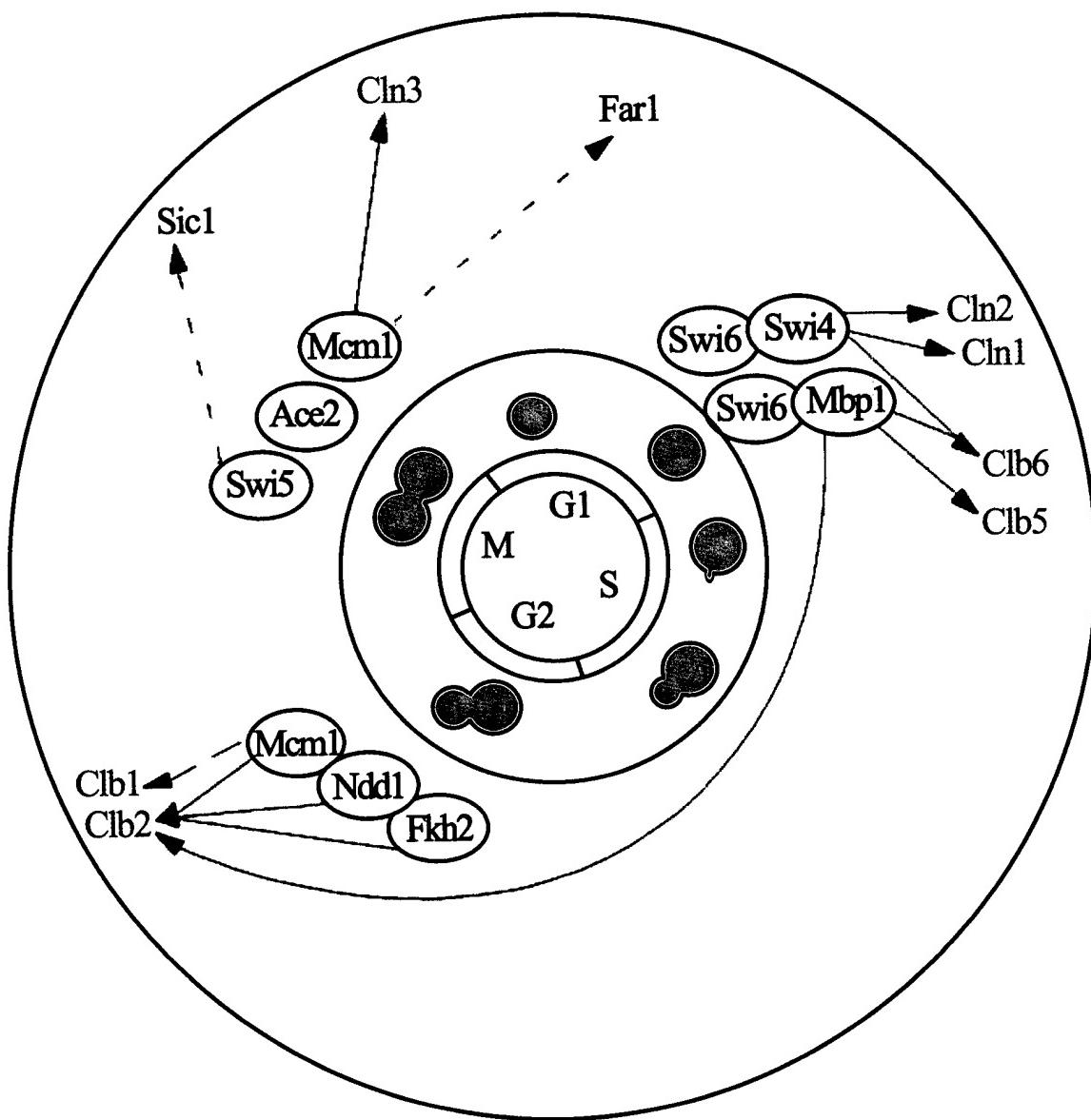


FIGURE 12A

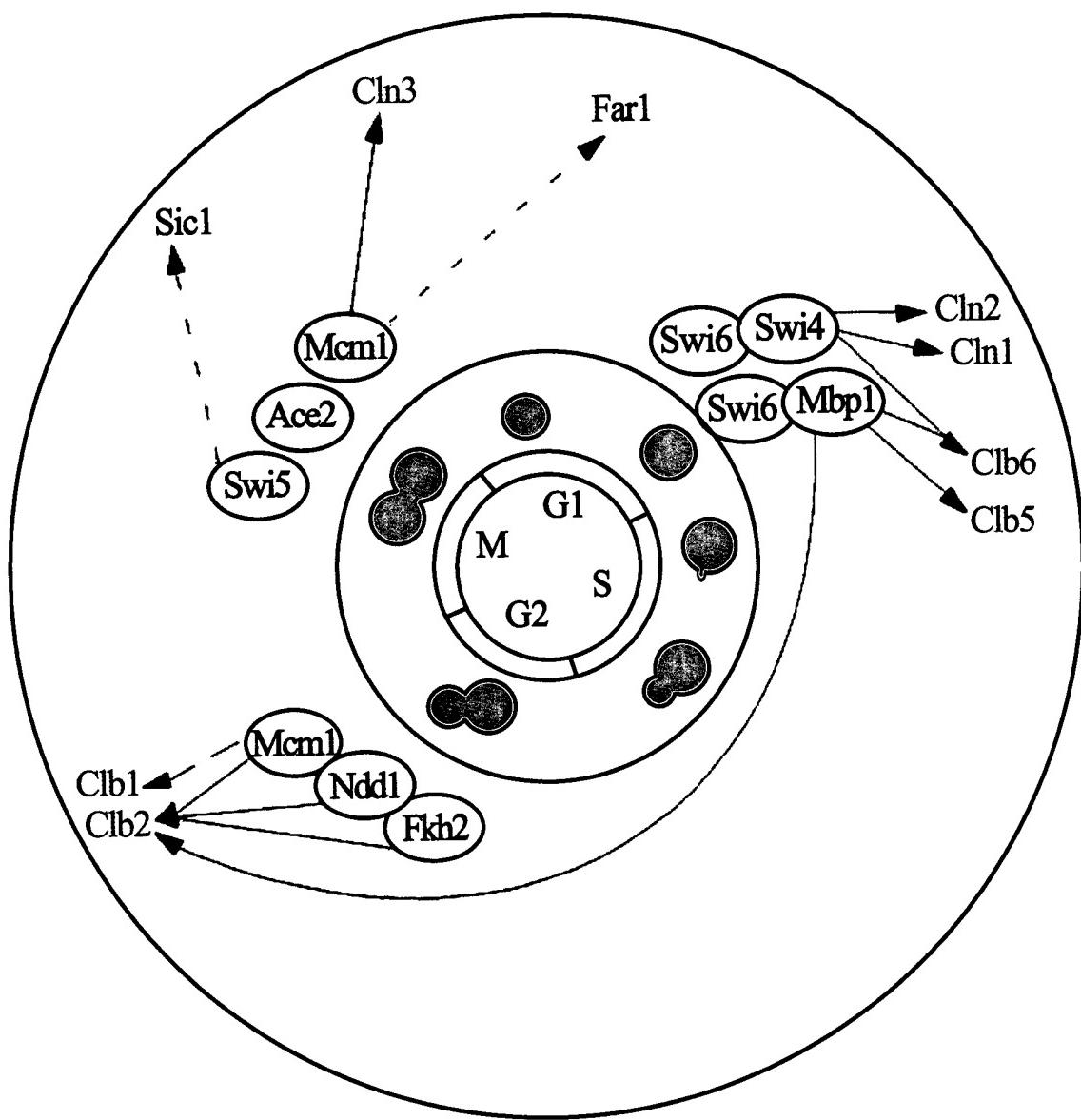


FIGURE 12A

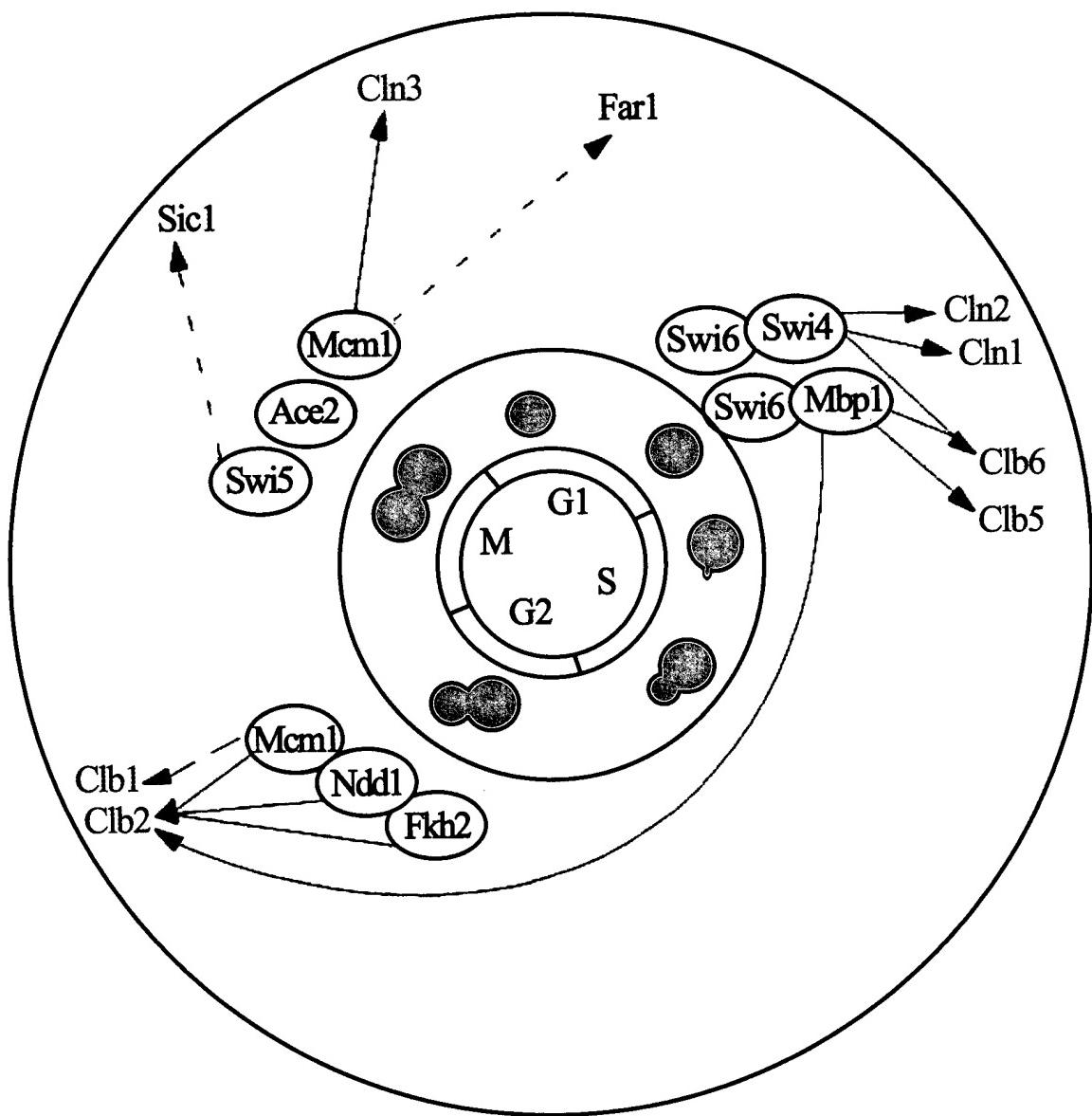


FIGURE 12A

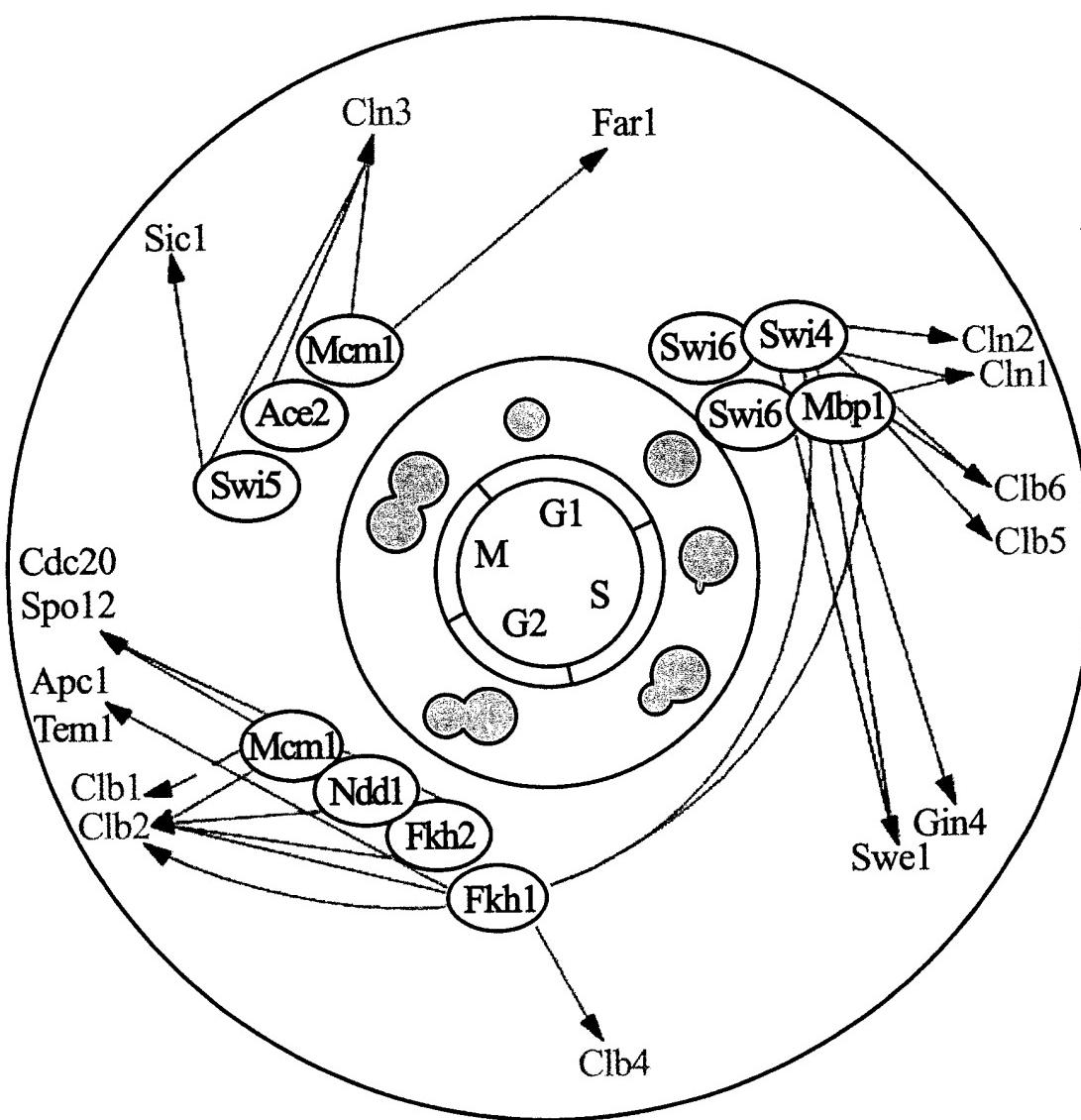


FIGURE 12B

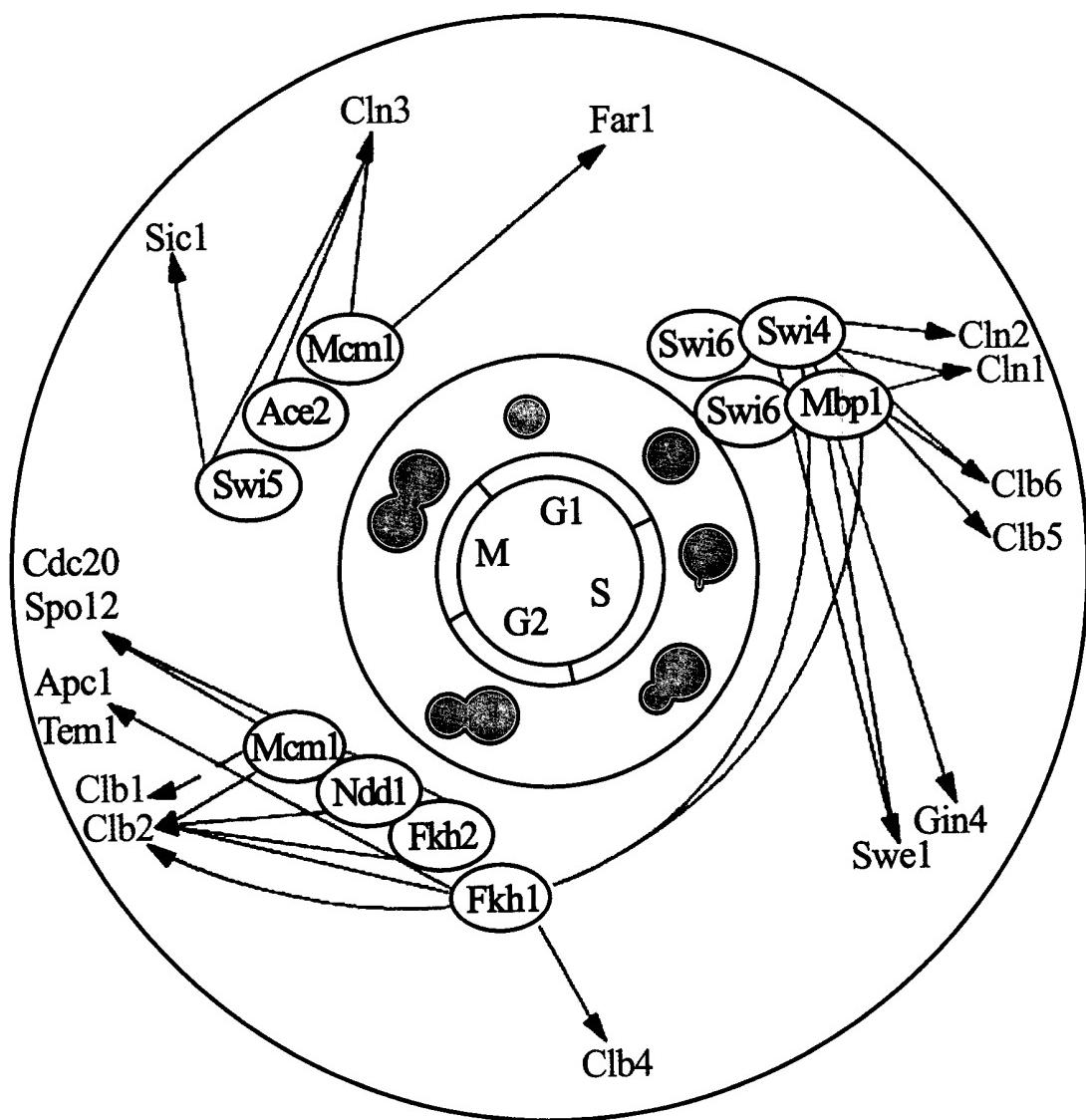


FIGURE 12B

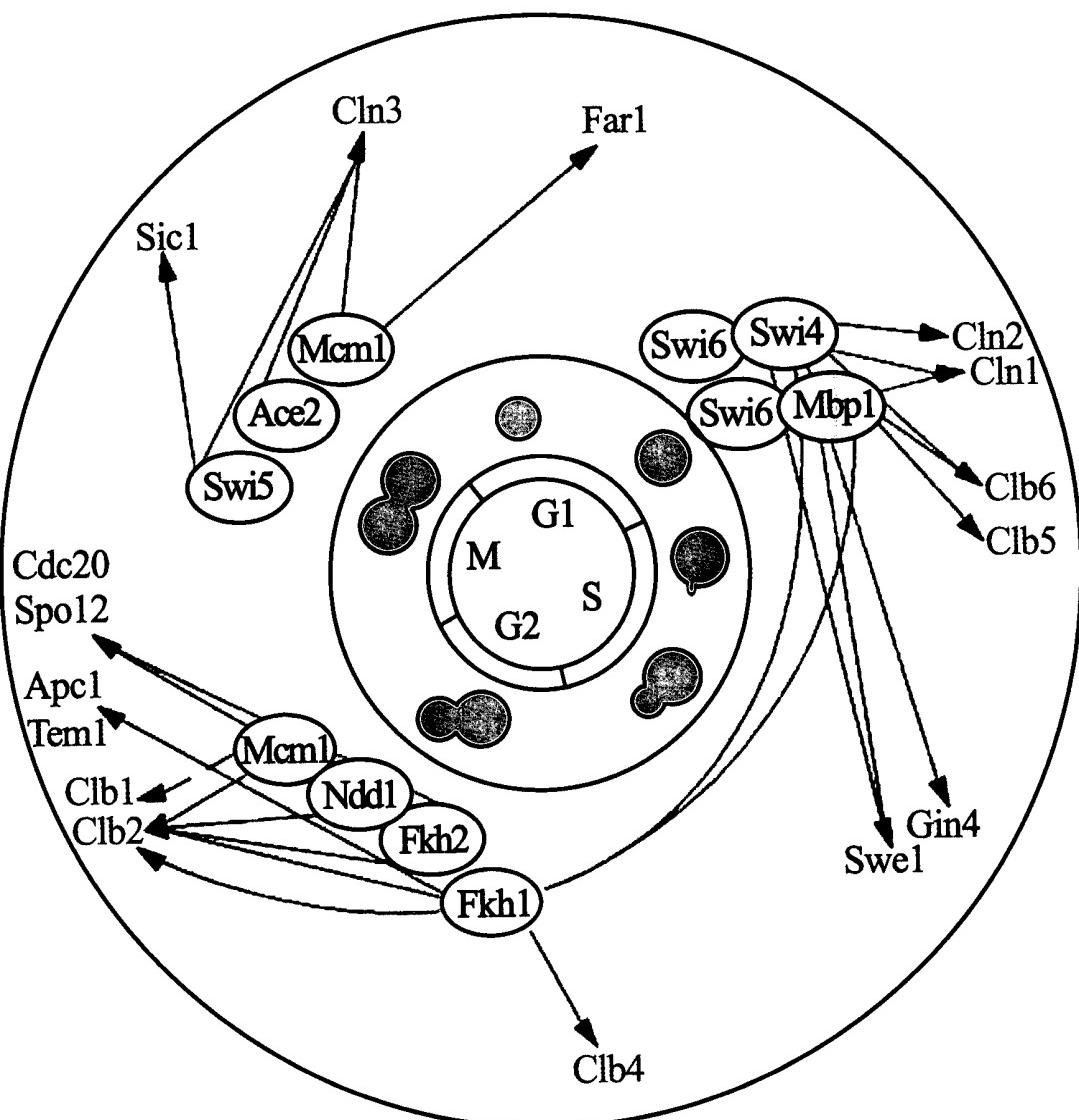


FIGURE 12B

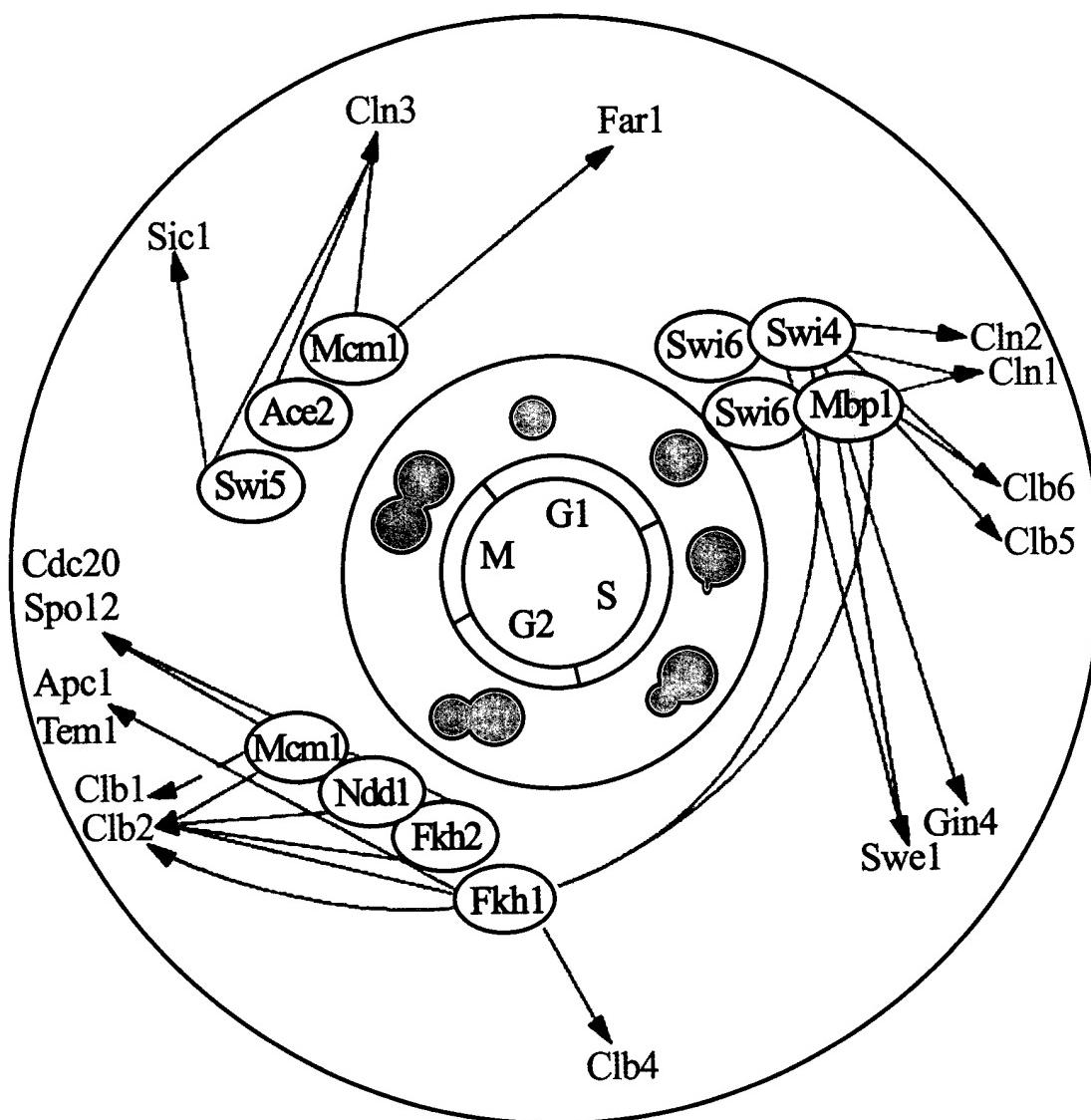


FIGURE 12B

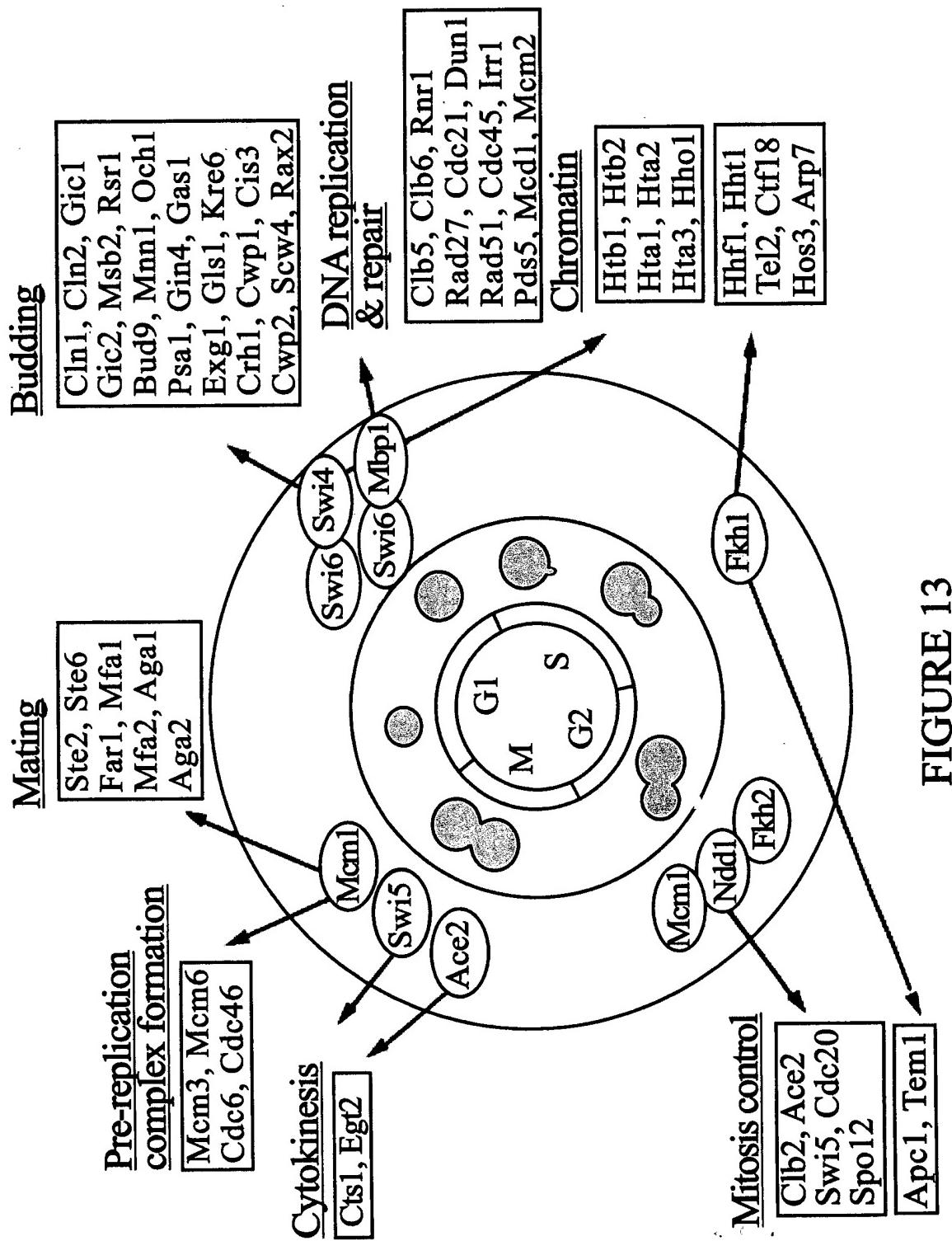


FIGURE 13

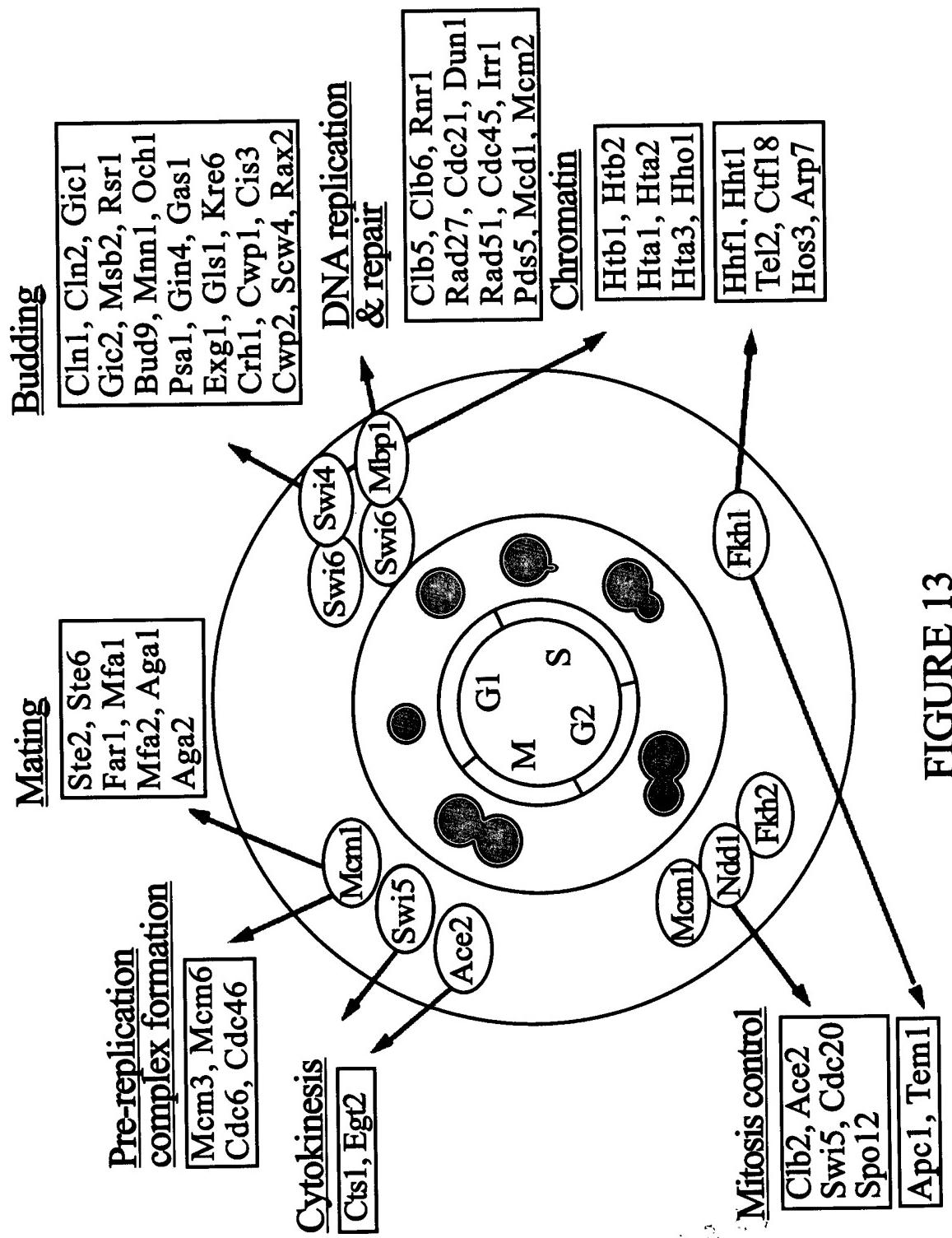


FIGURE 13

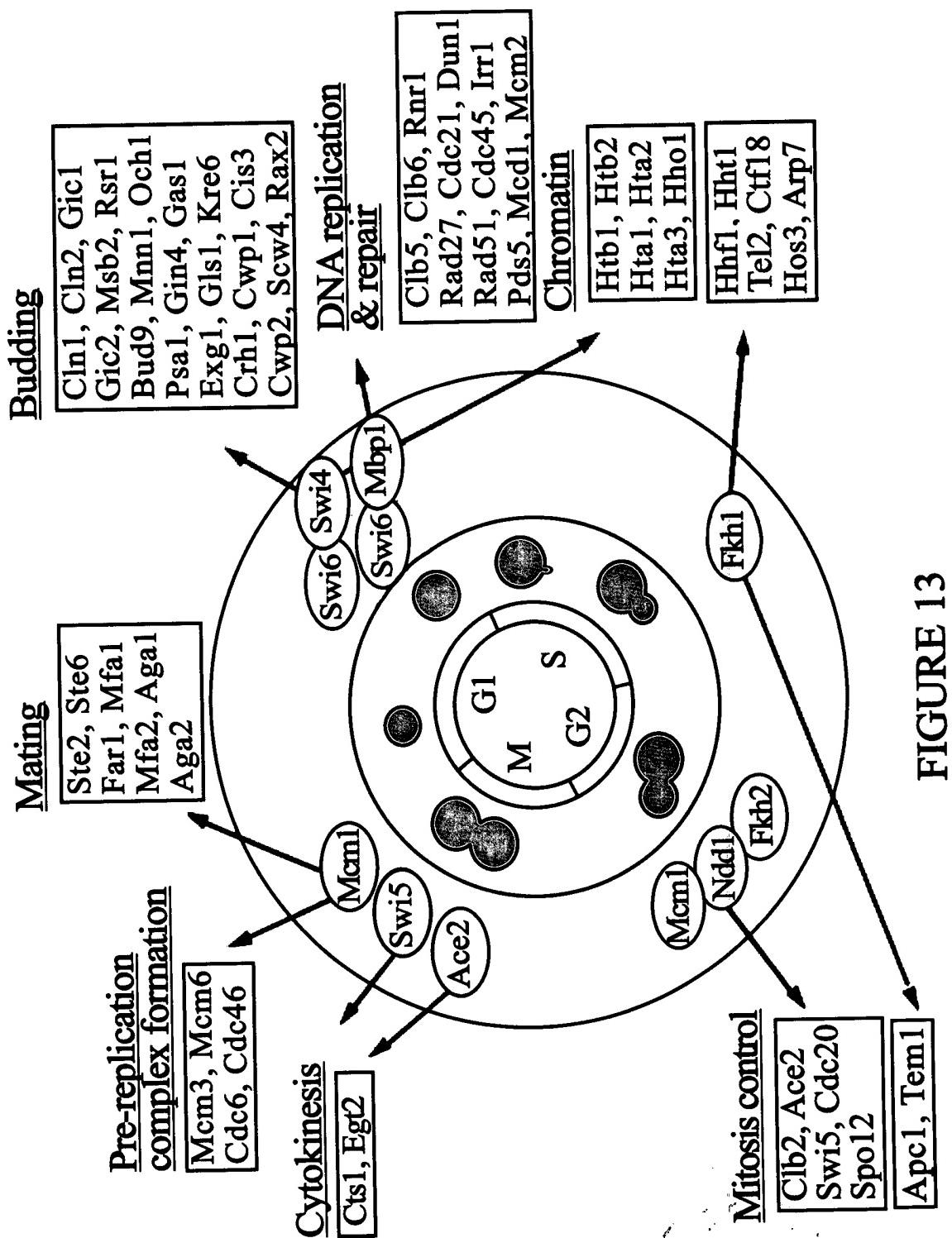


FIGURE 13

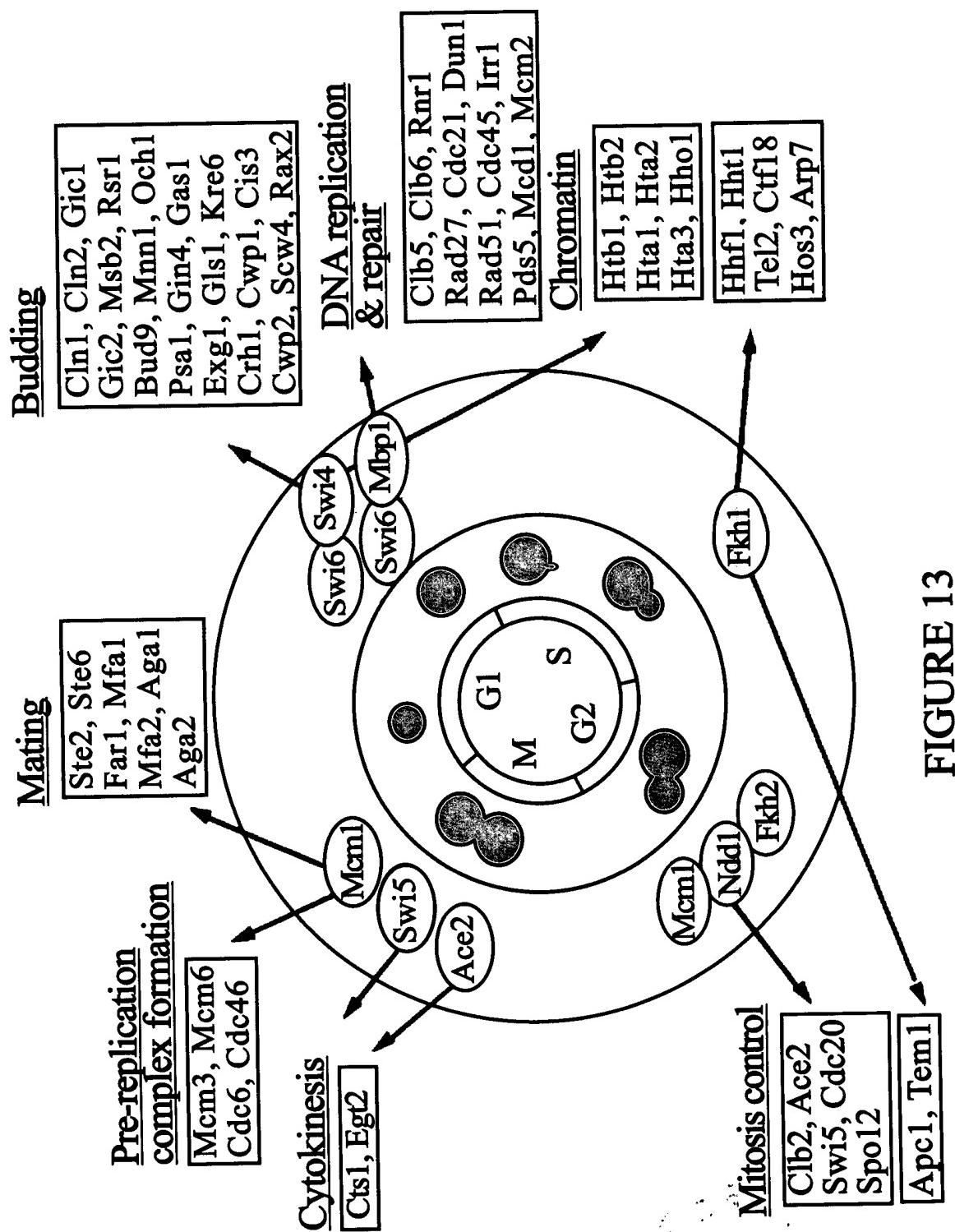


FIGURE 13

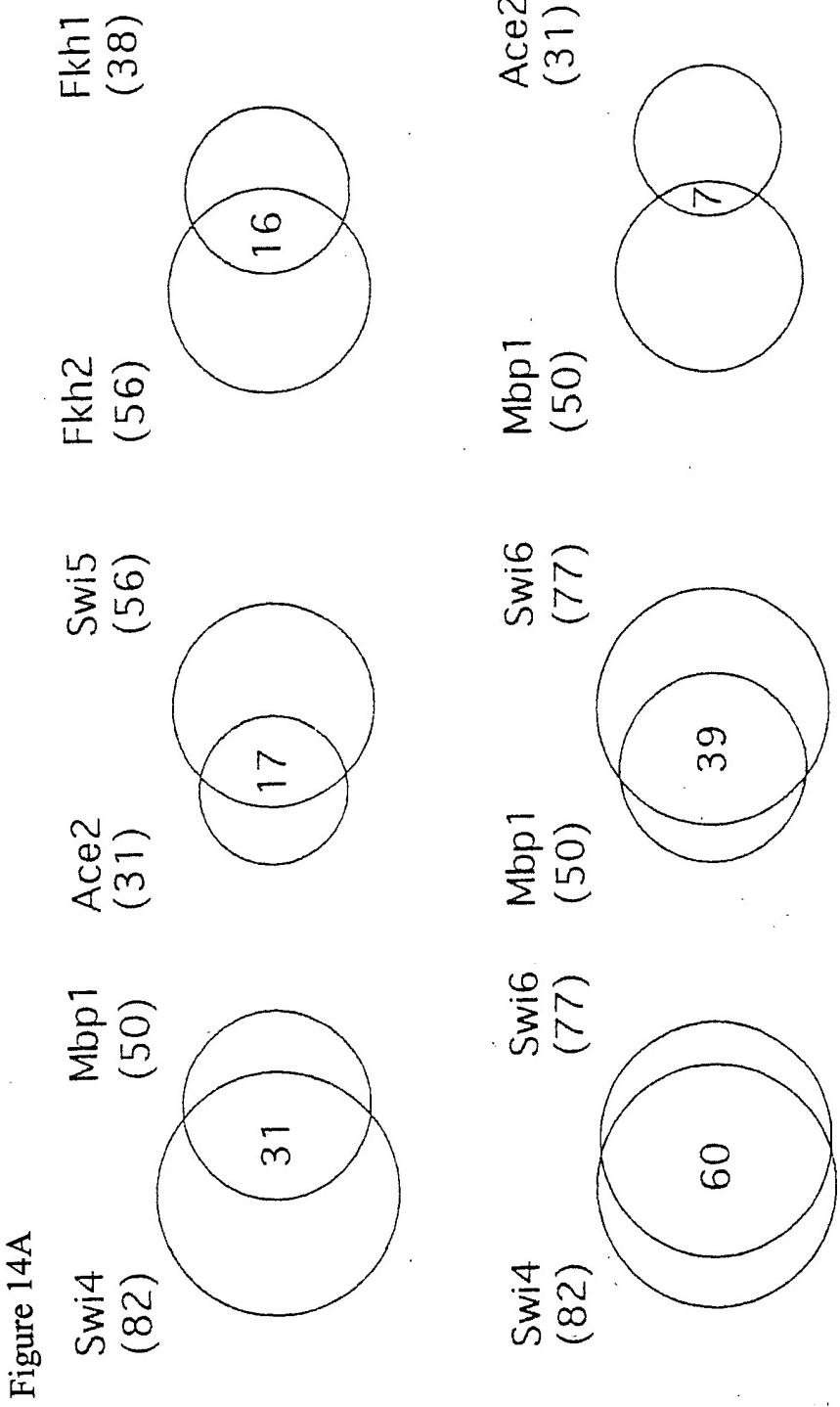


Figure 14C

Figure 14B